

Figure 1
(Prior Art)

2004.03.07.07.07.07

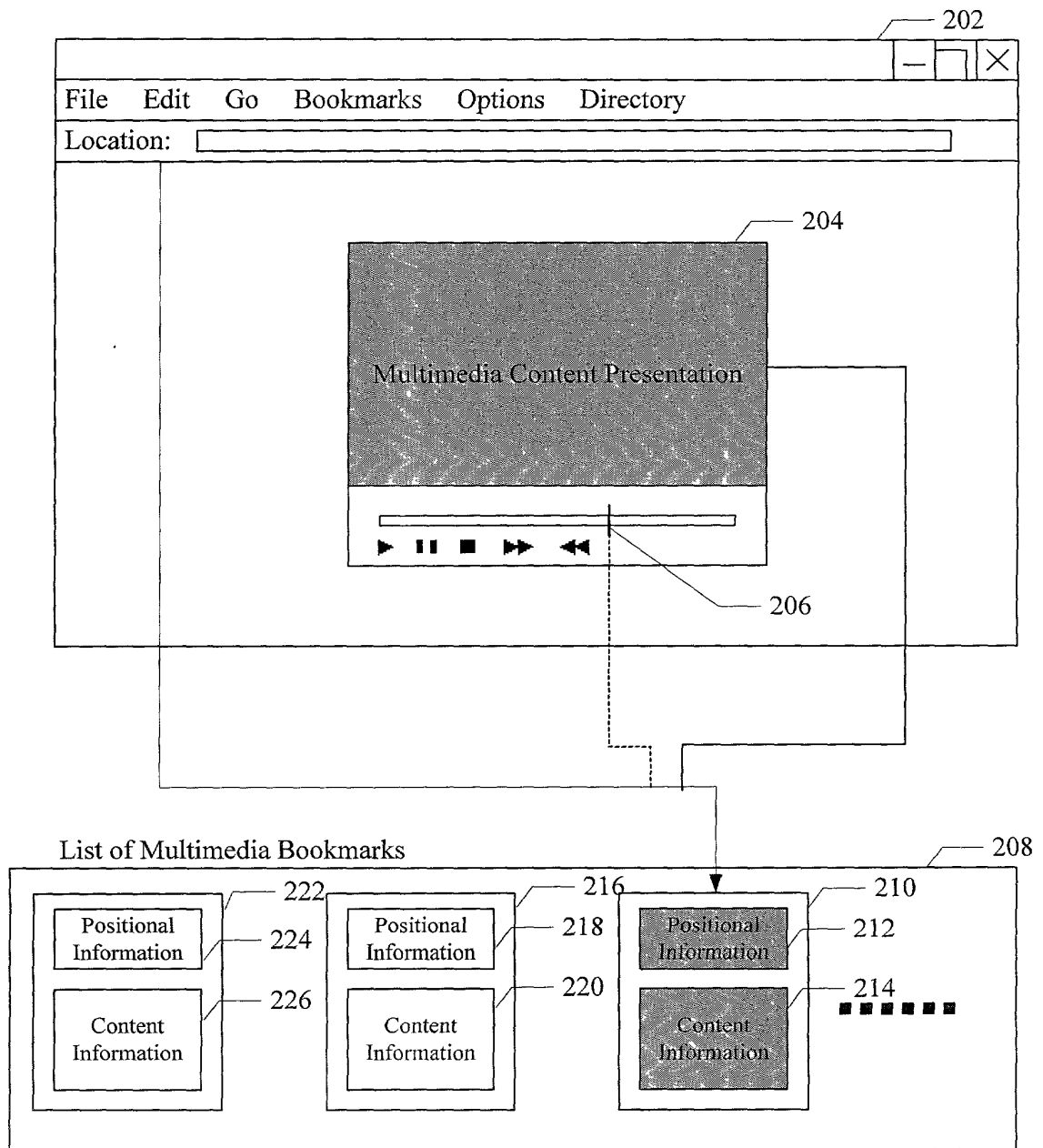


Figure 2

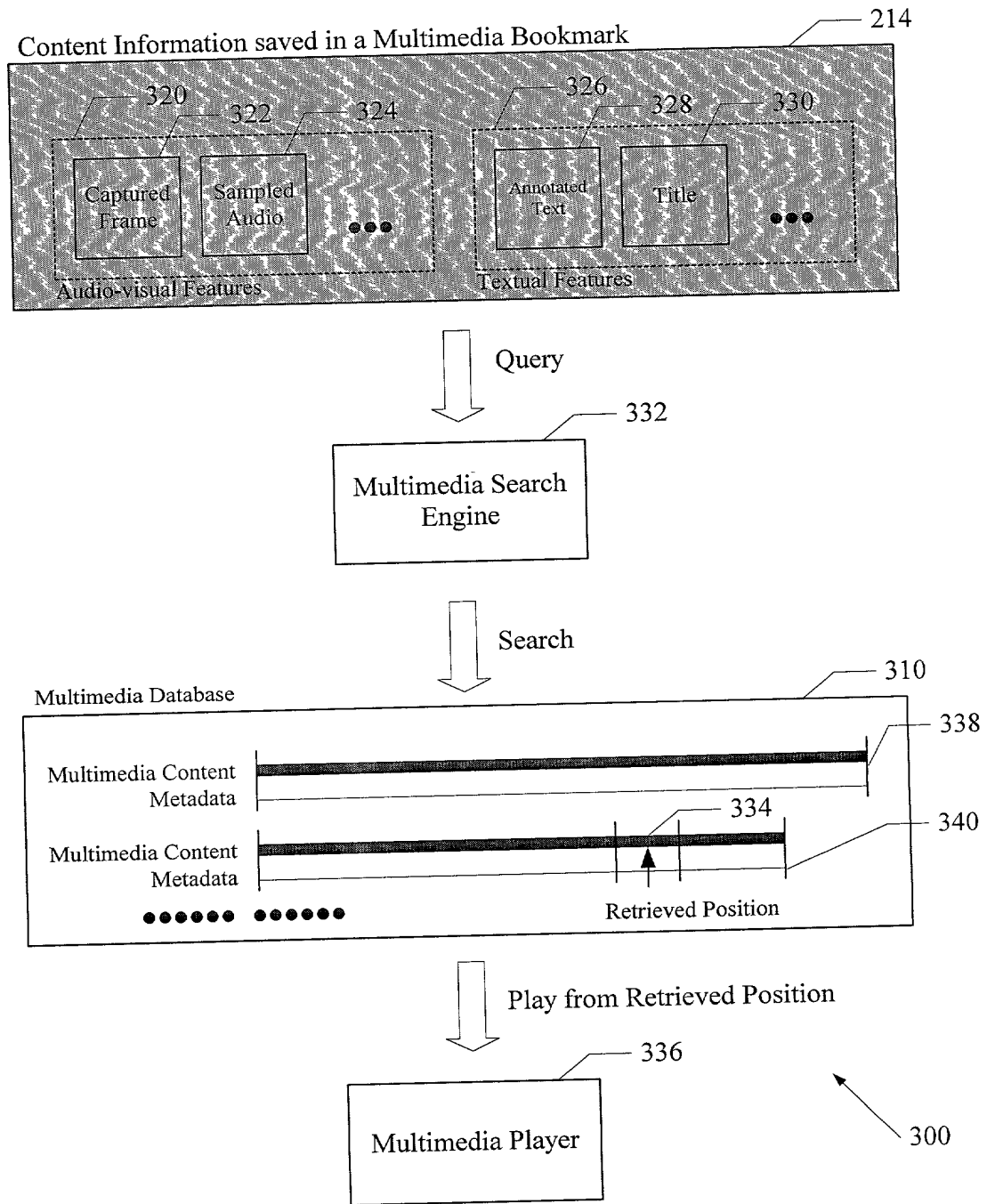


Figure 3

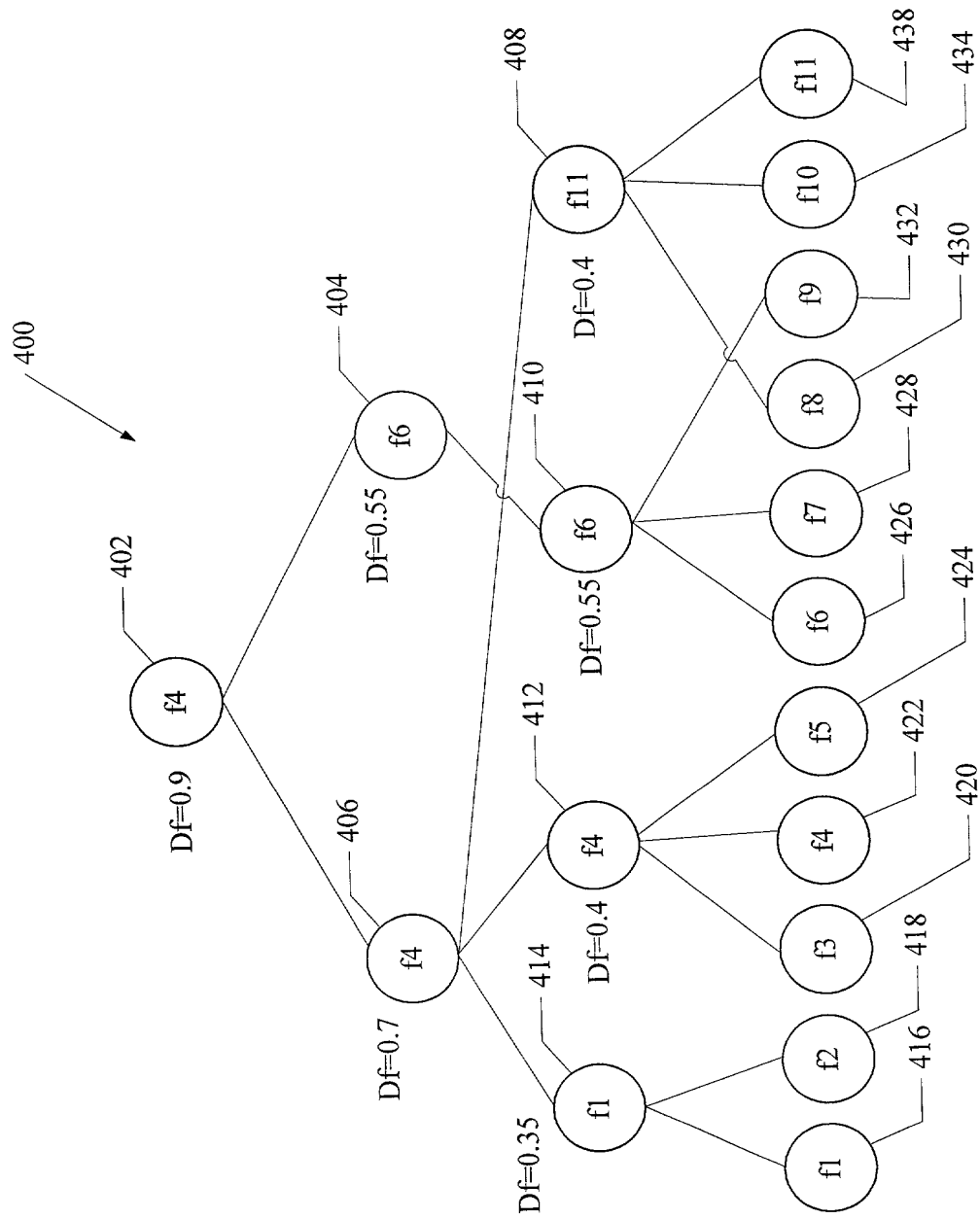
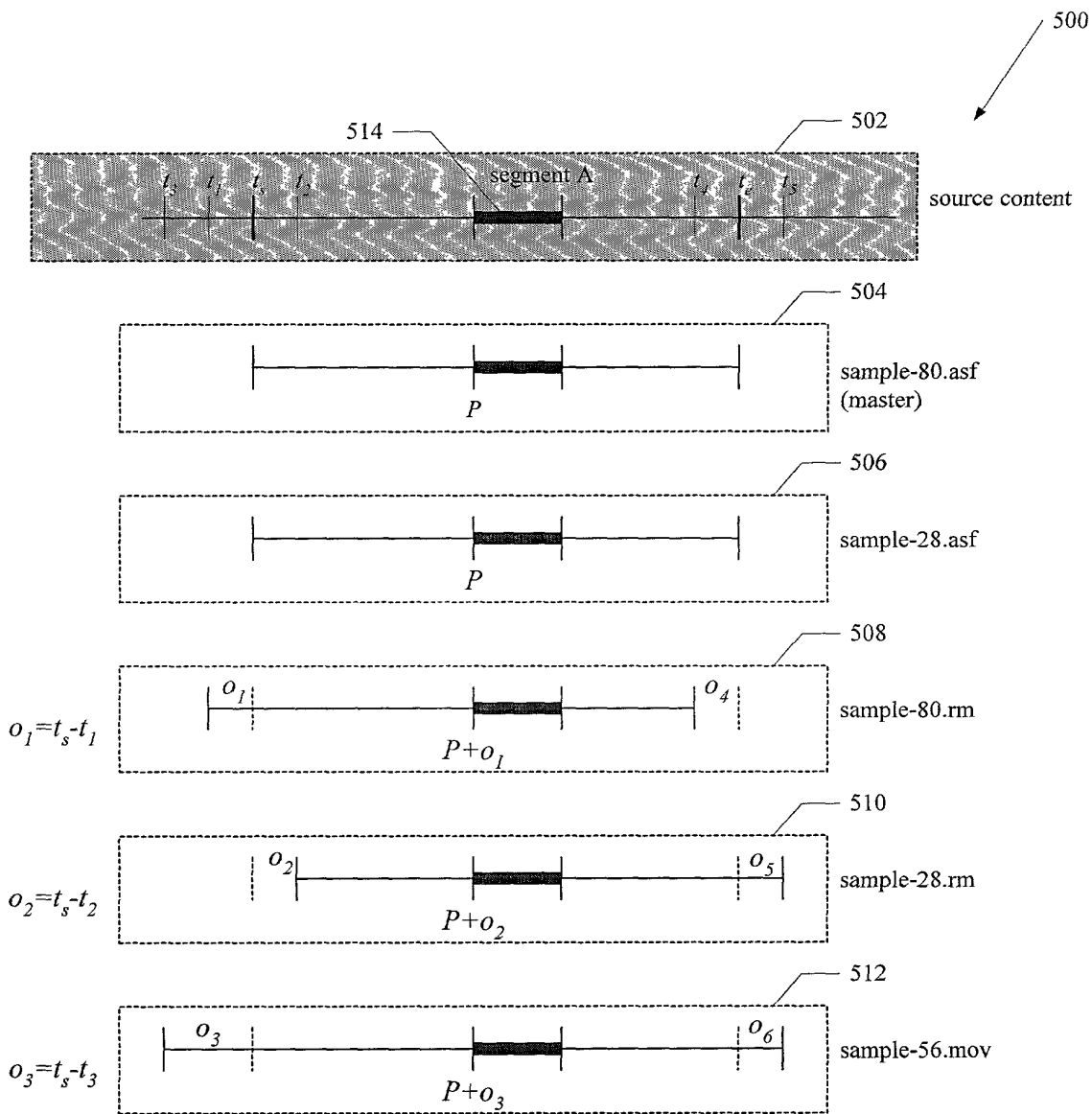


Figure 4



* The media time point P is a start time of the segment A in the master file.

Figure 5

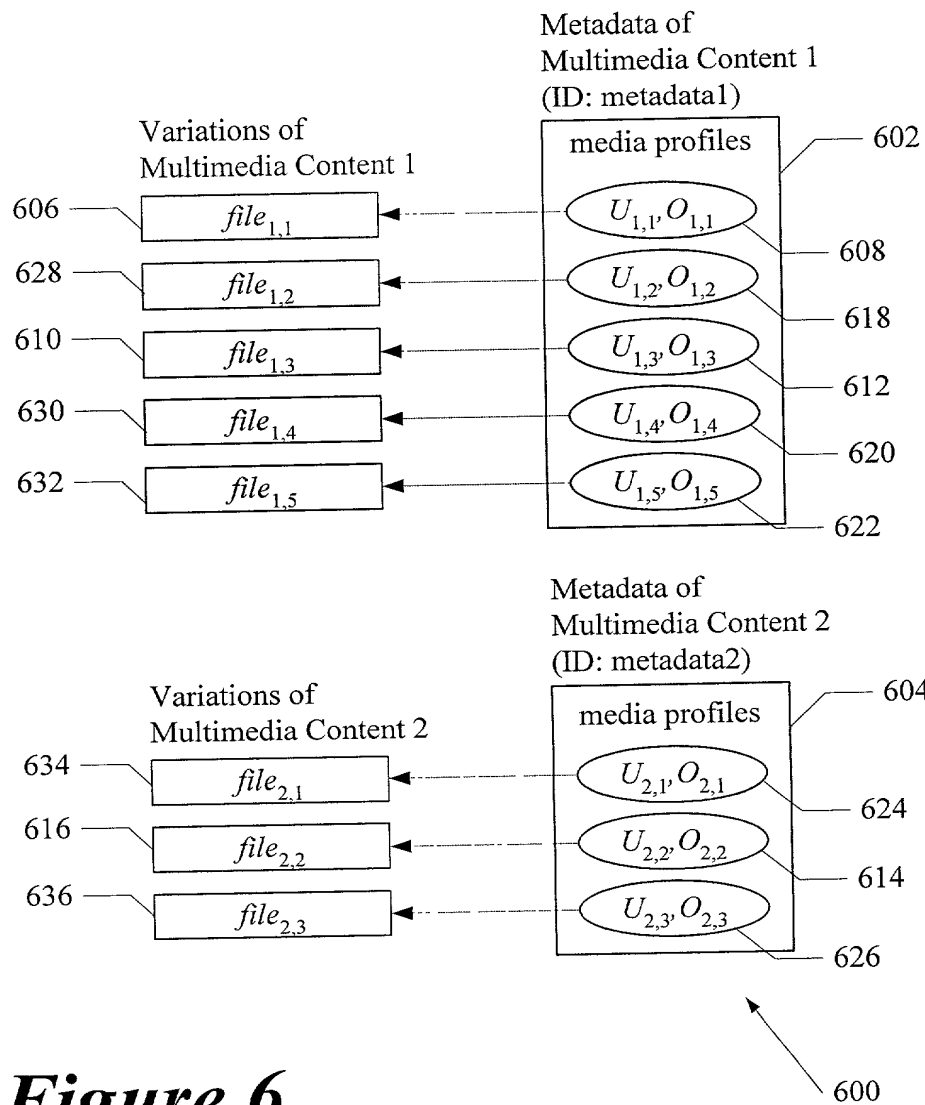


Figure 6

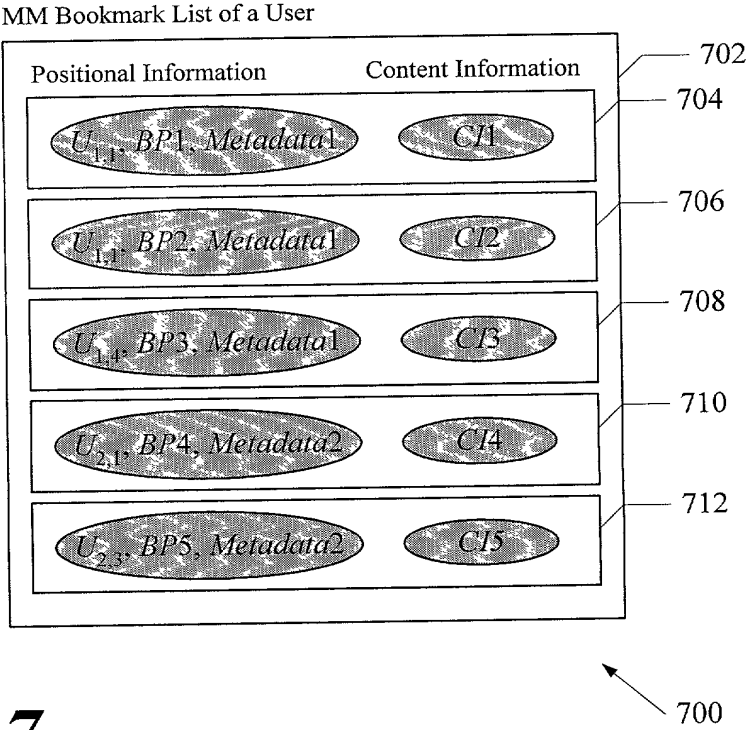


Figure 7

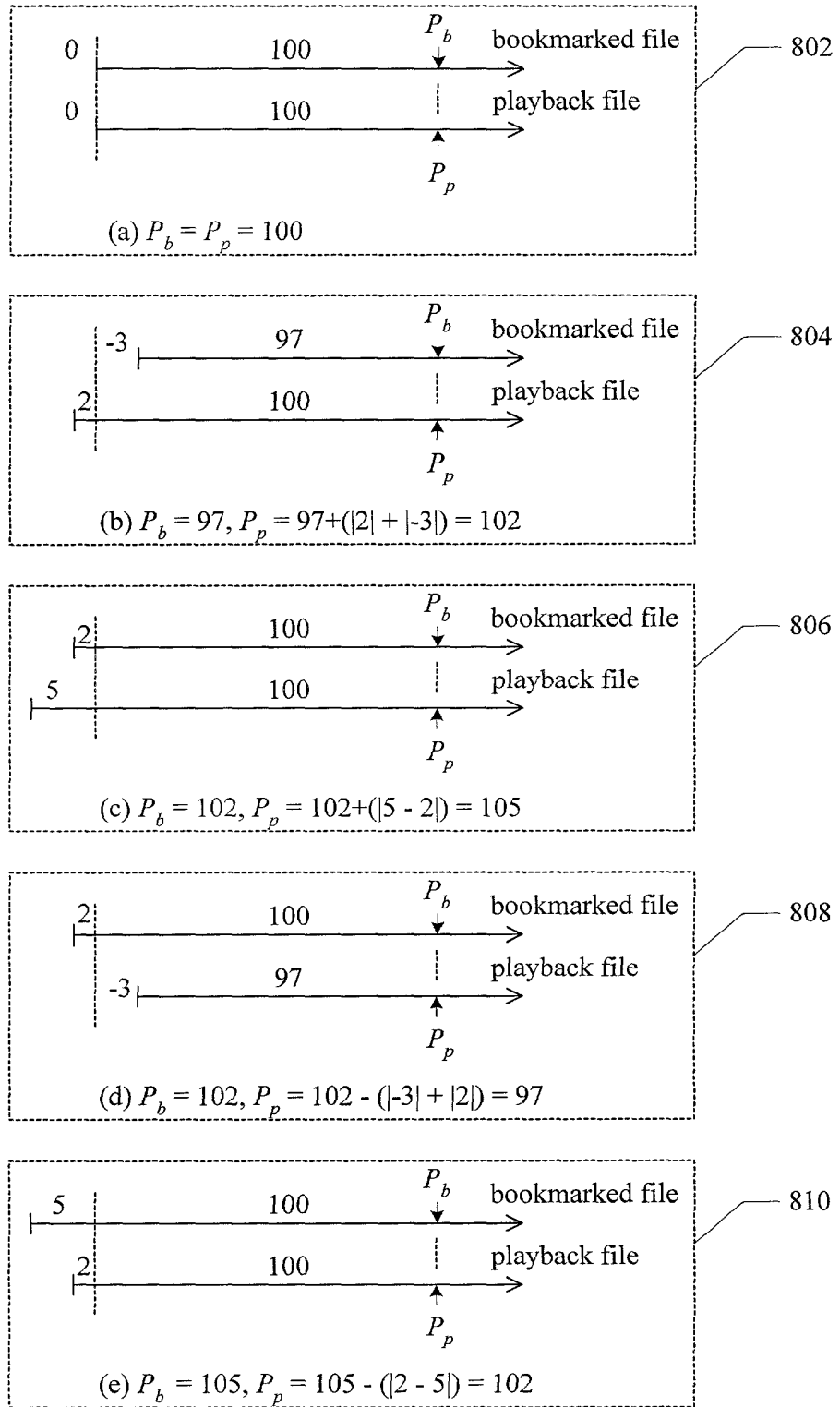


Figure 8

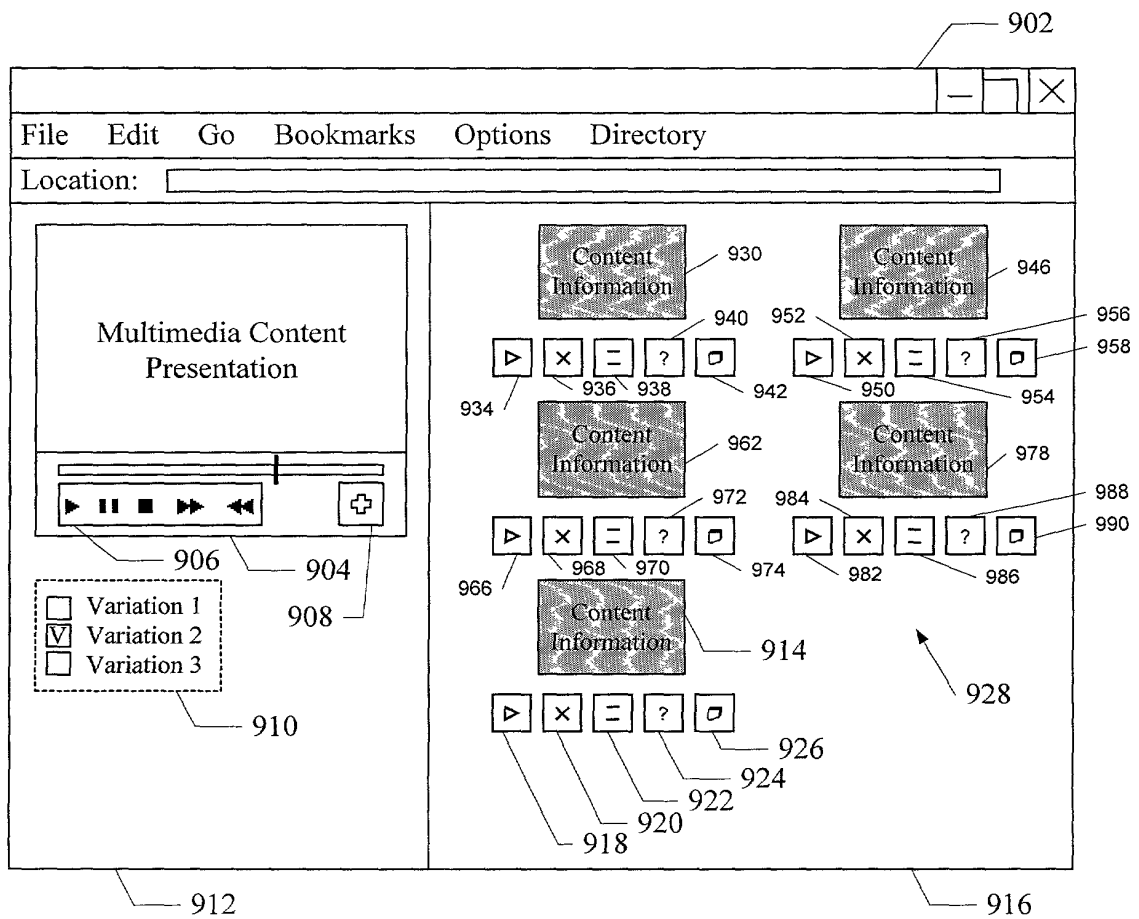


Figure 9

Figure 10

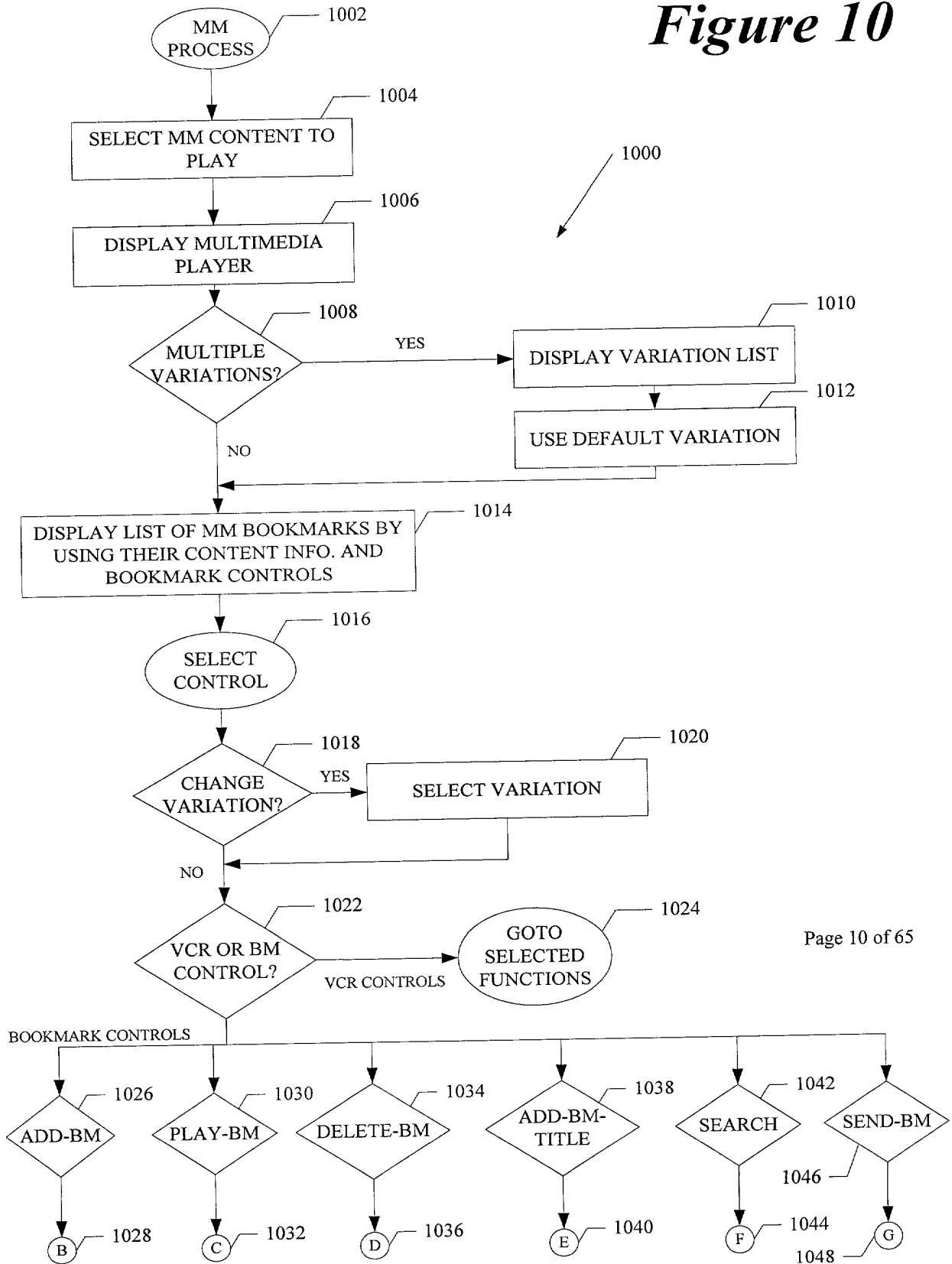


Figure 11

Figure 12

Figure 13

Figure 14

Figure 15

Figure 16

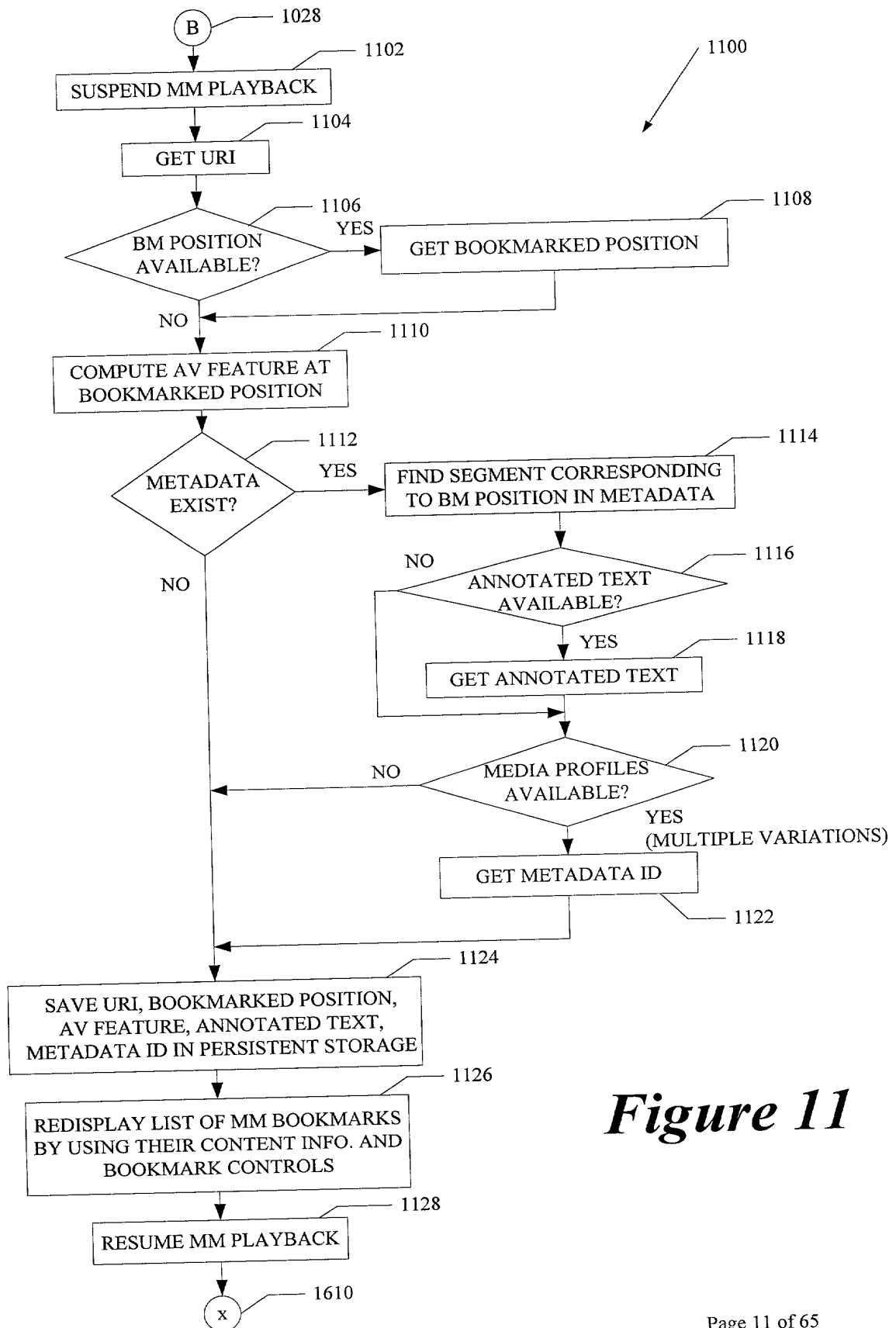


Figure 11

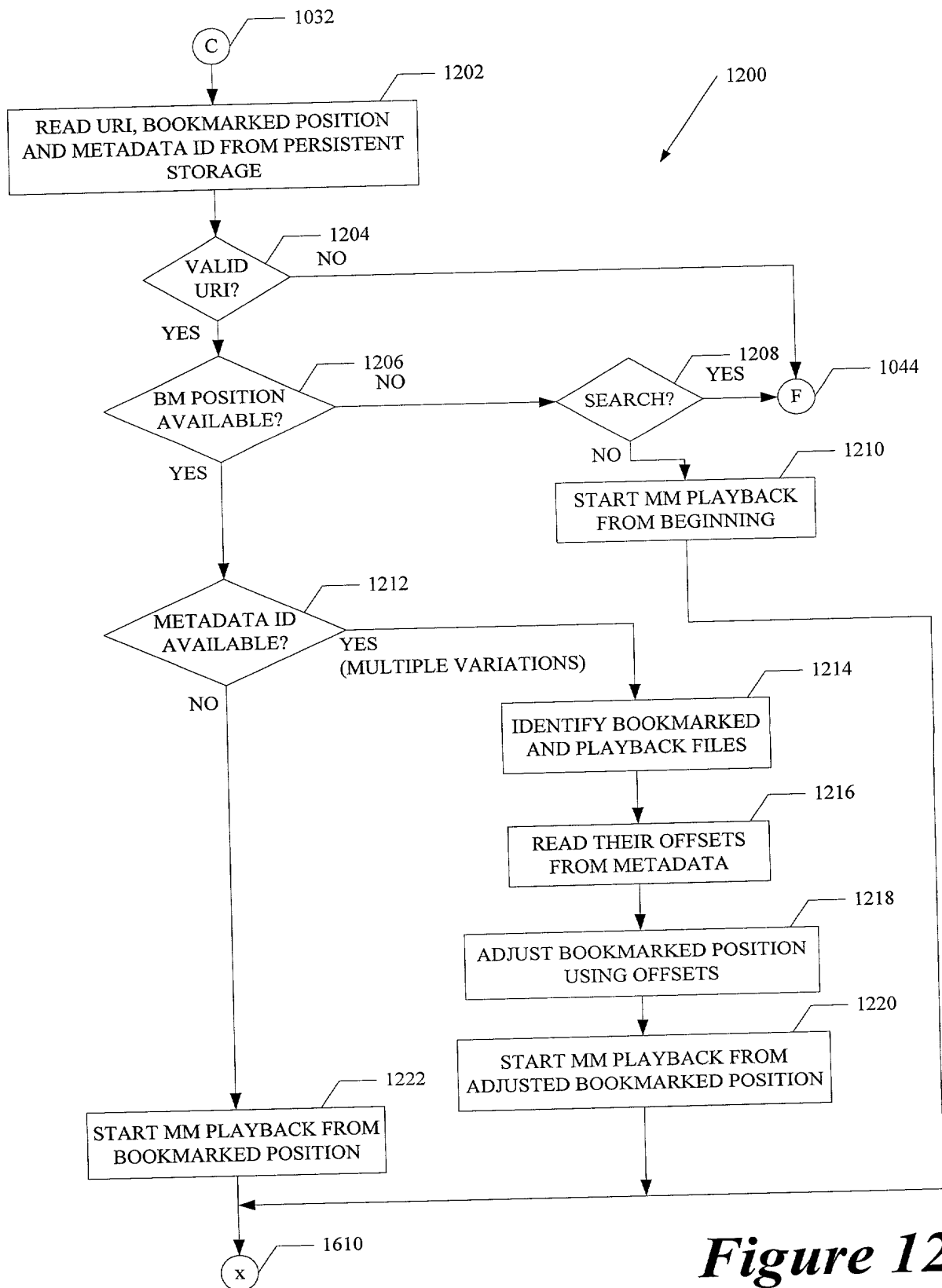


Figure 12

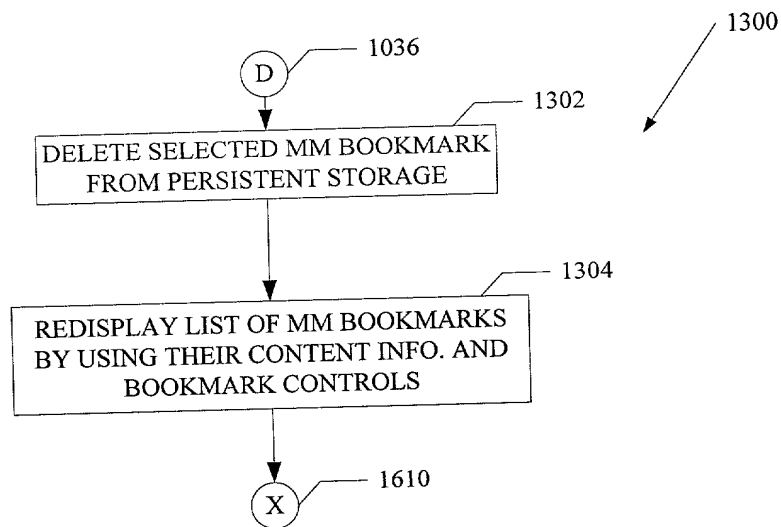


Figure 13

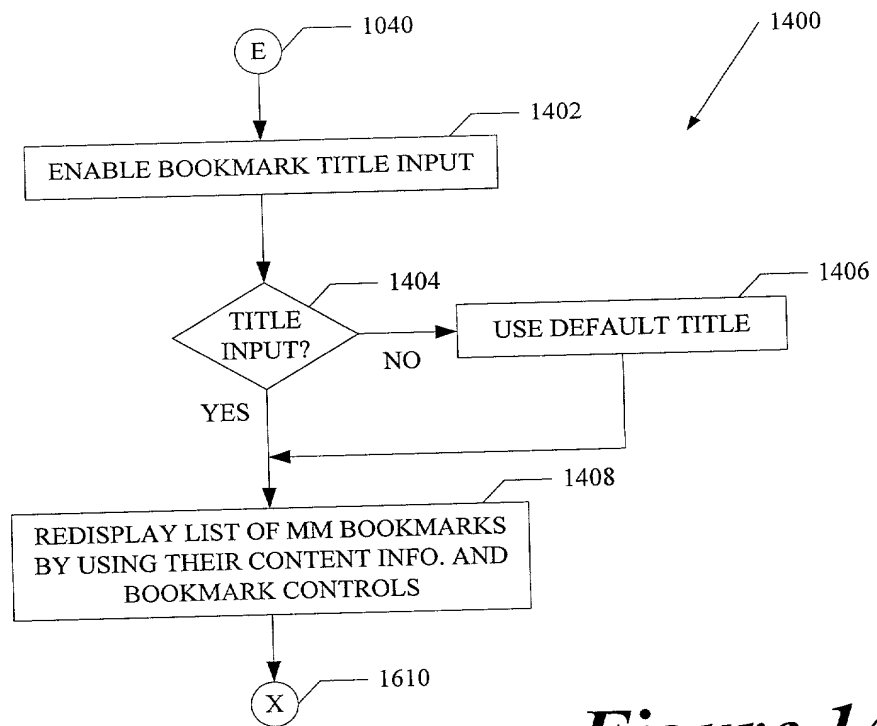
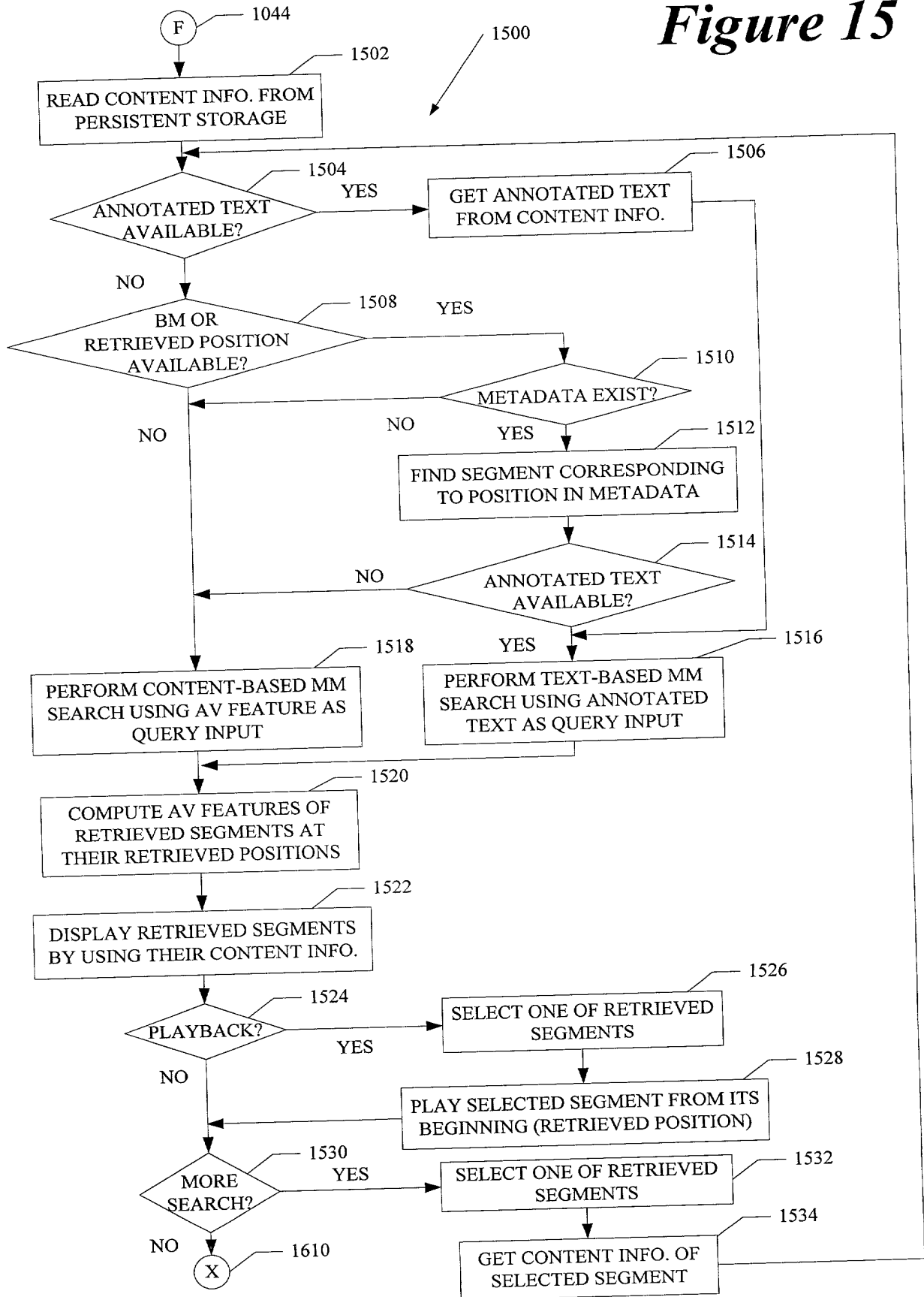


Figure 14

Figure 15



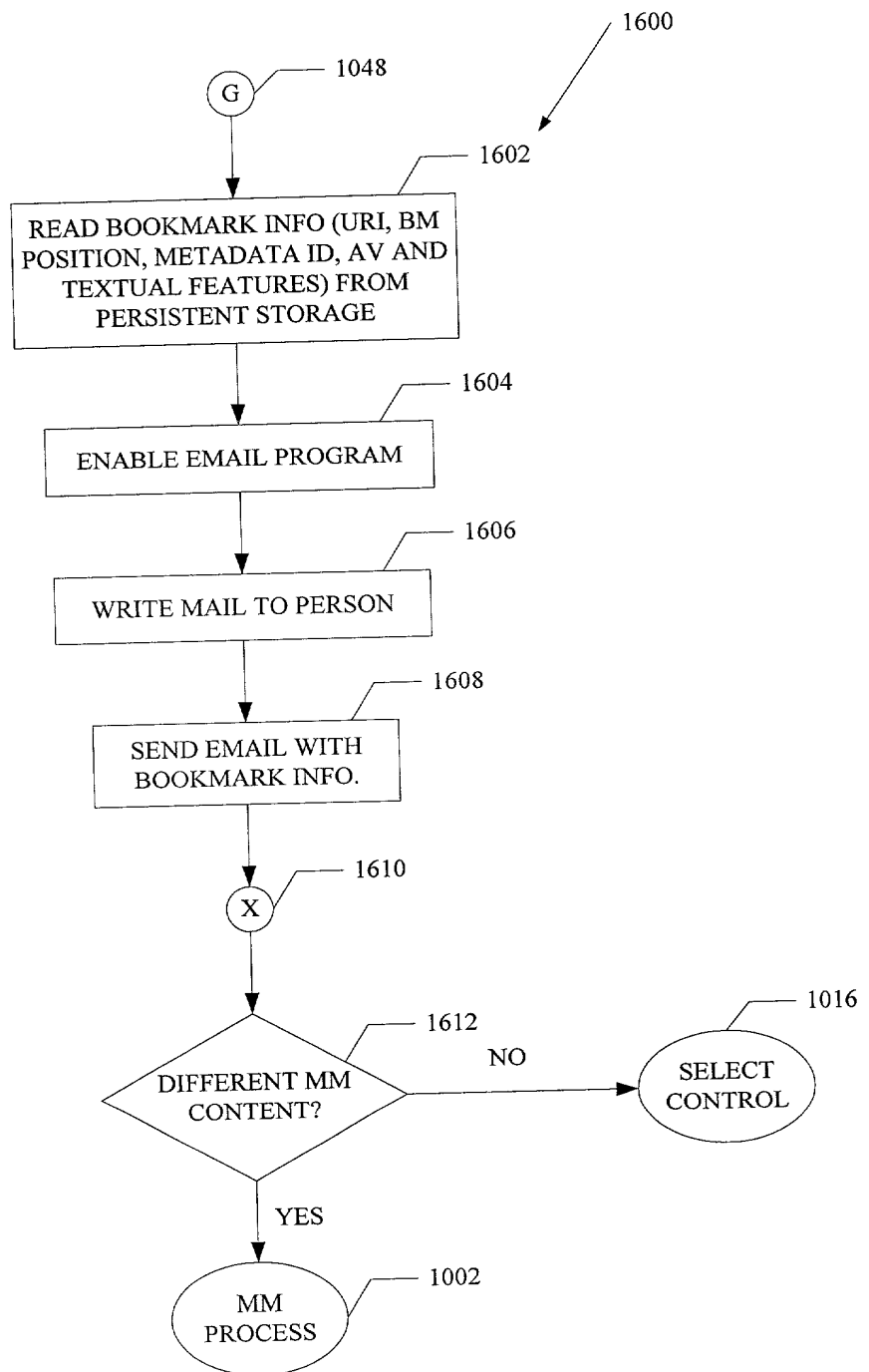


Figure 16

1700

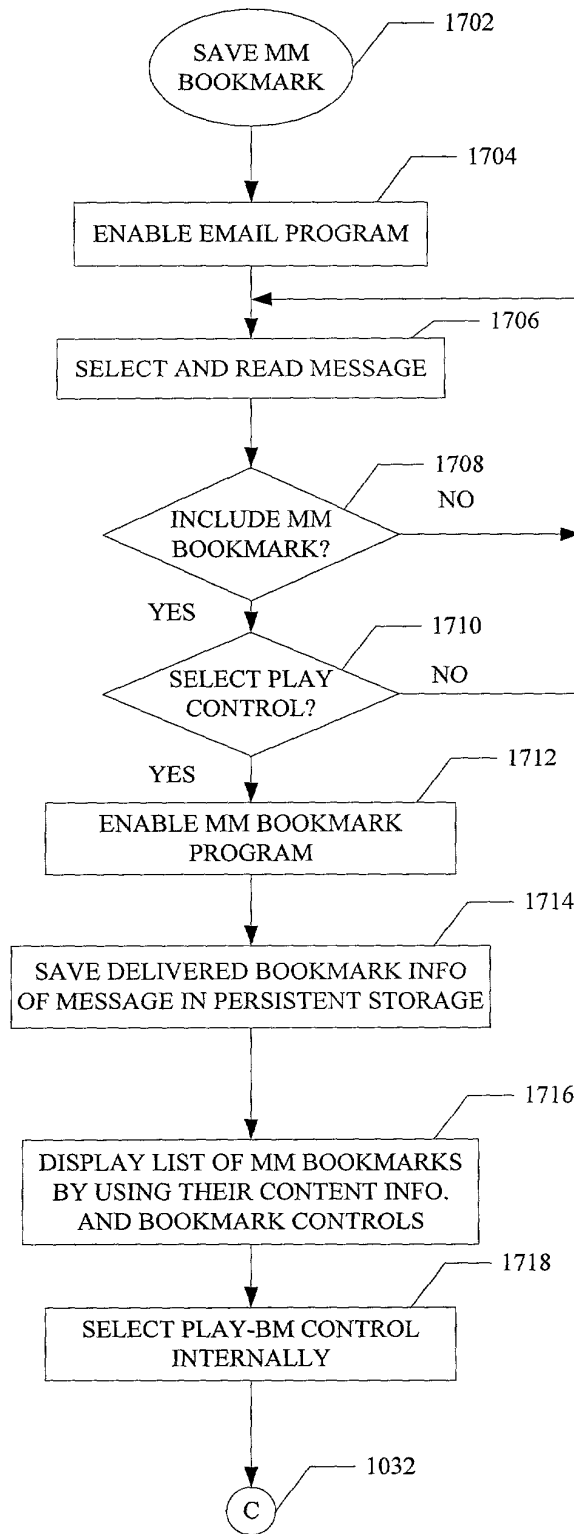


Figure 17

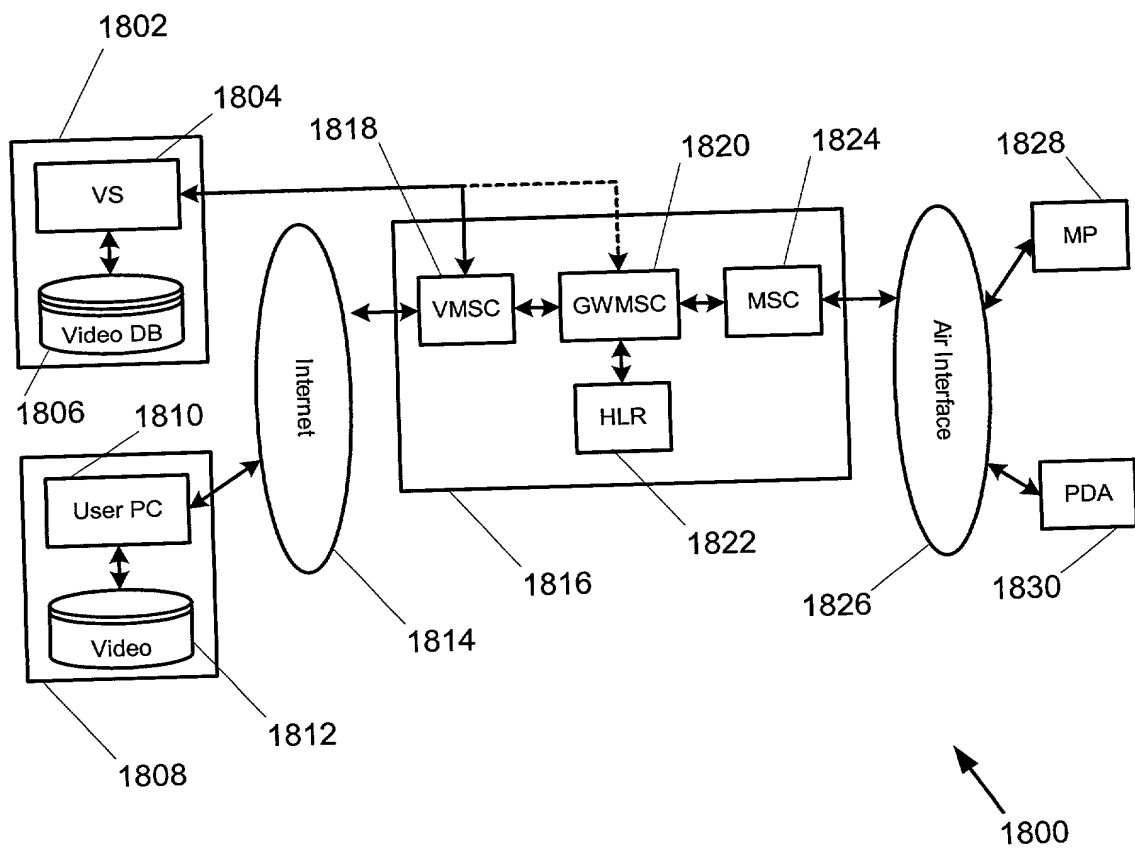


Figure 18

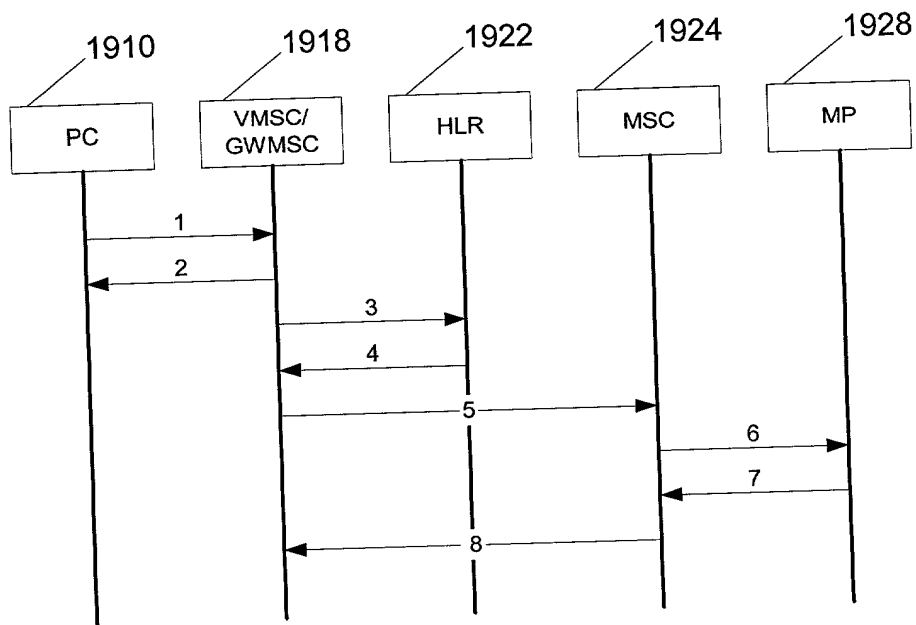


Figure 19

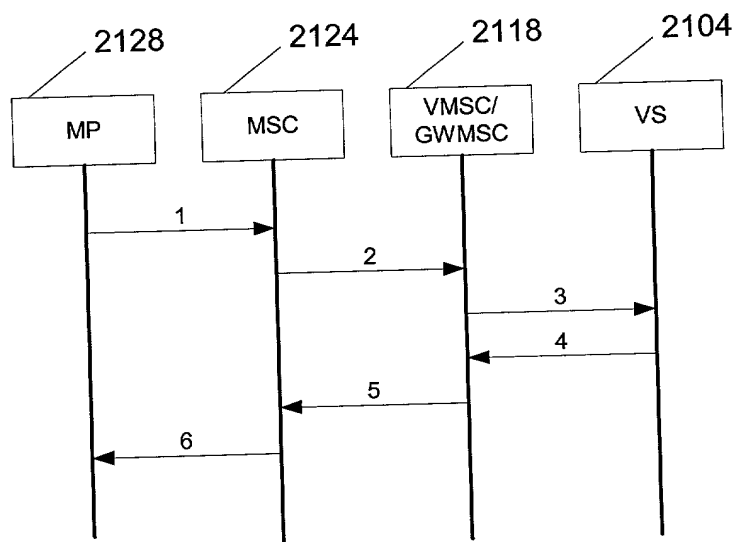


Figure 21

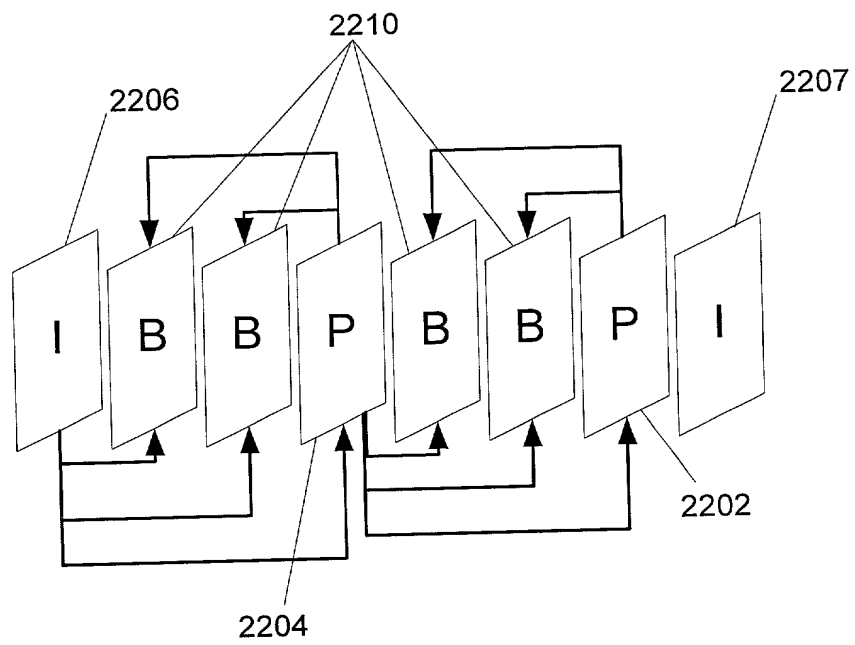


Figure 22

4422000

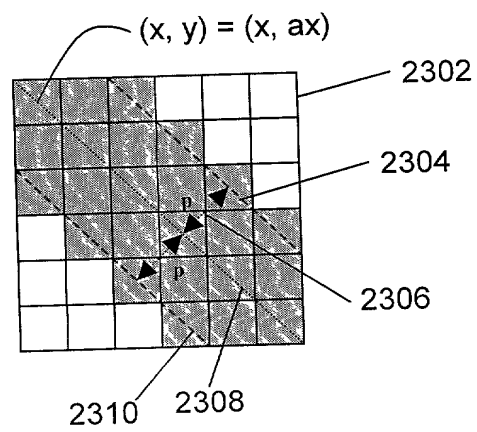


Figure 23

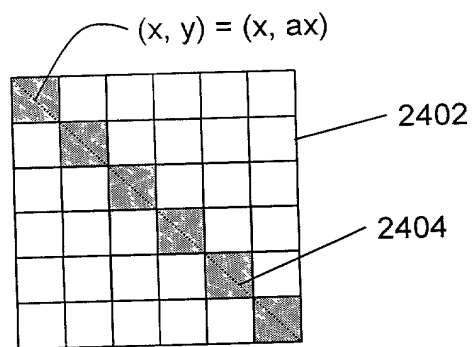


Figure 24

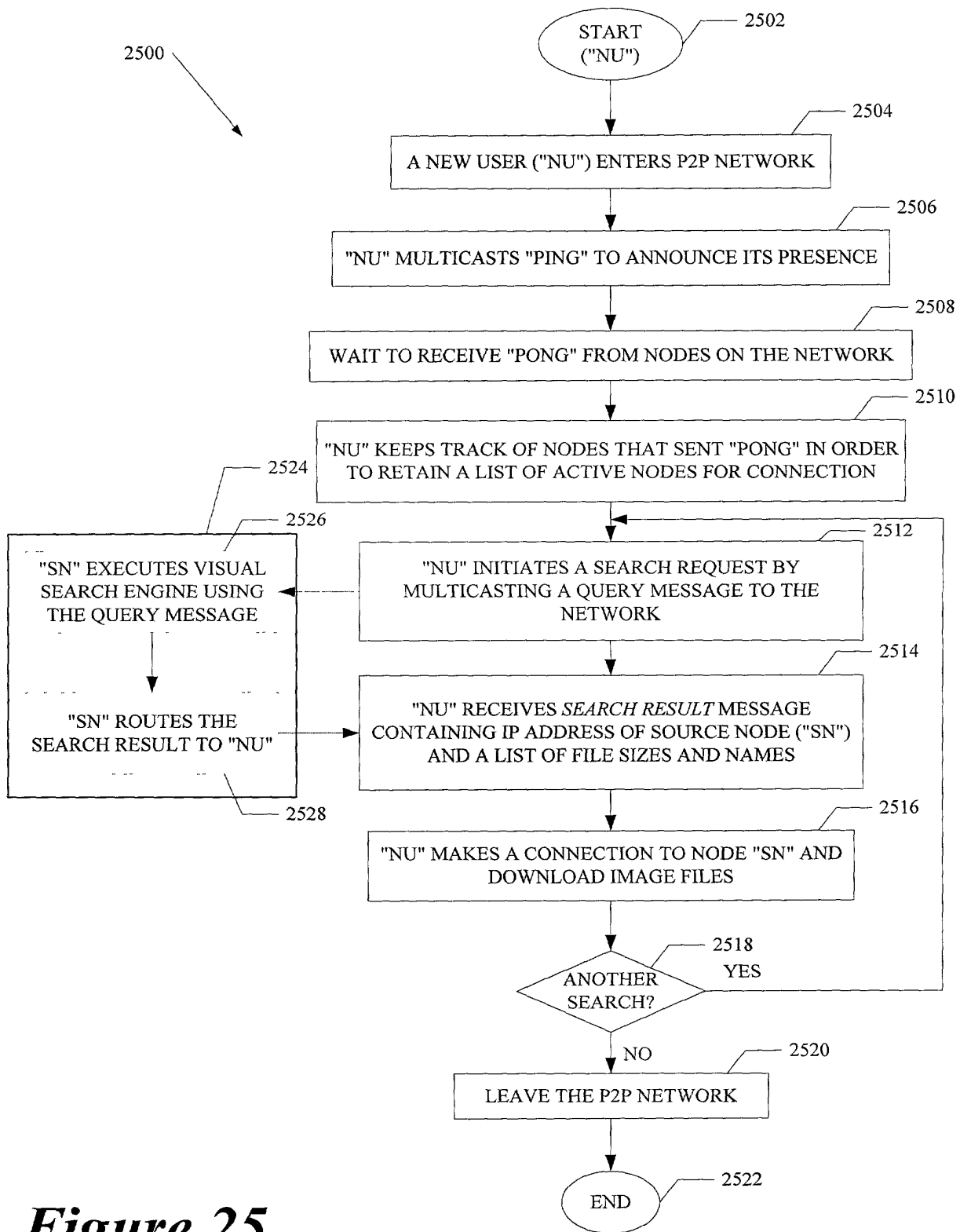


Figure 25

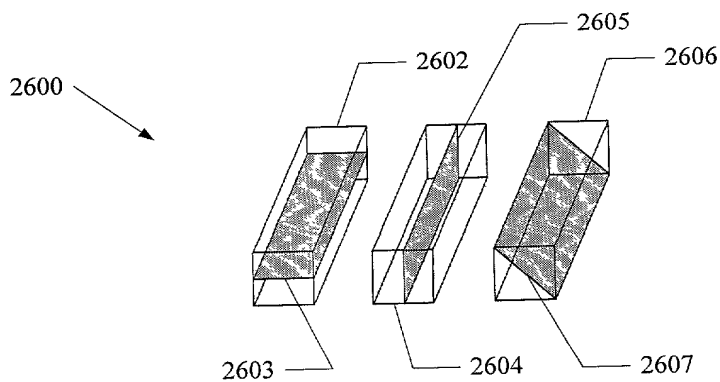


Figure 26

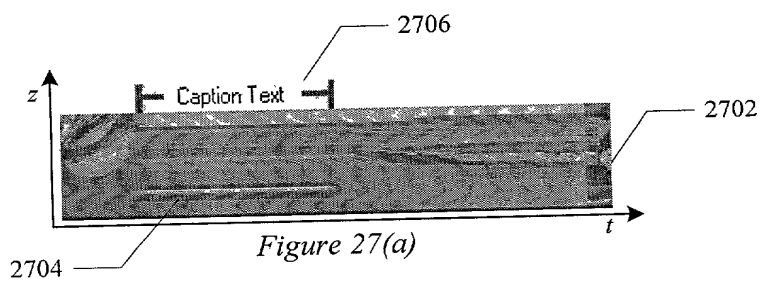


Figure 27(a)

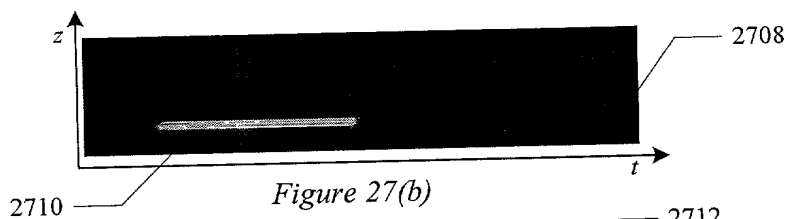


Figure 27(b)

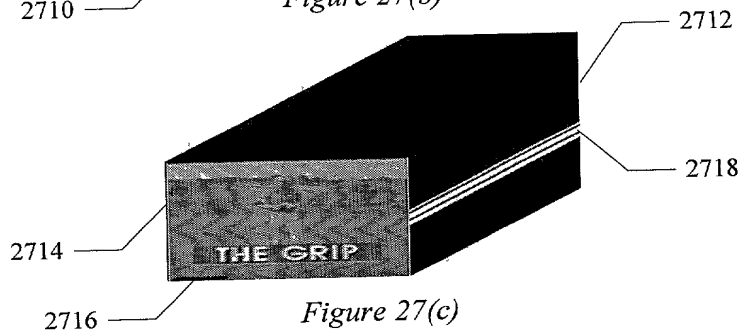


Figure 27(c)

Figure 27

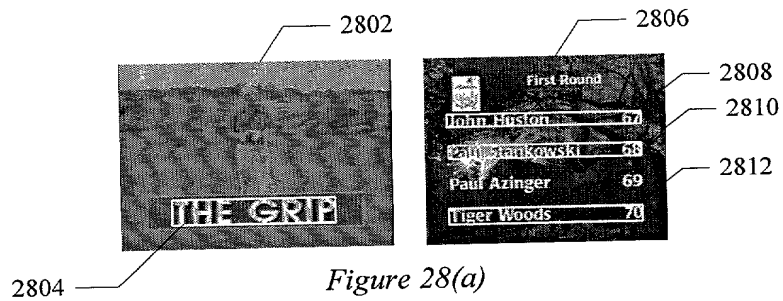


Figure 28(a)

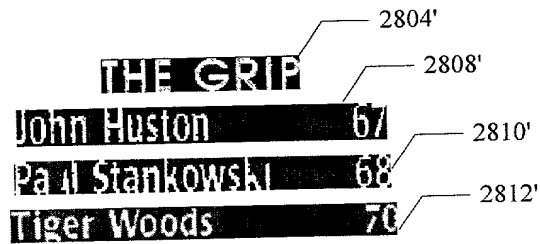


Figure 28(b)

Figure 28

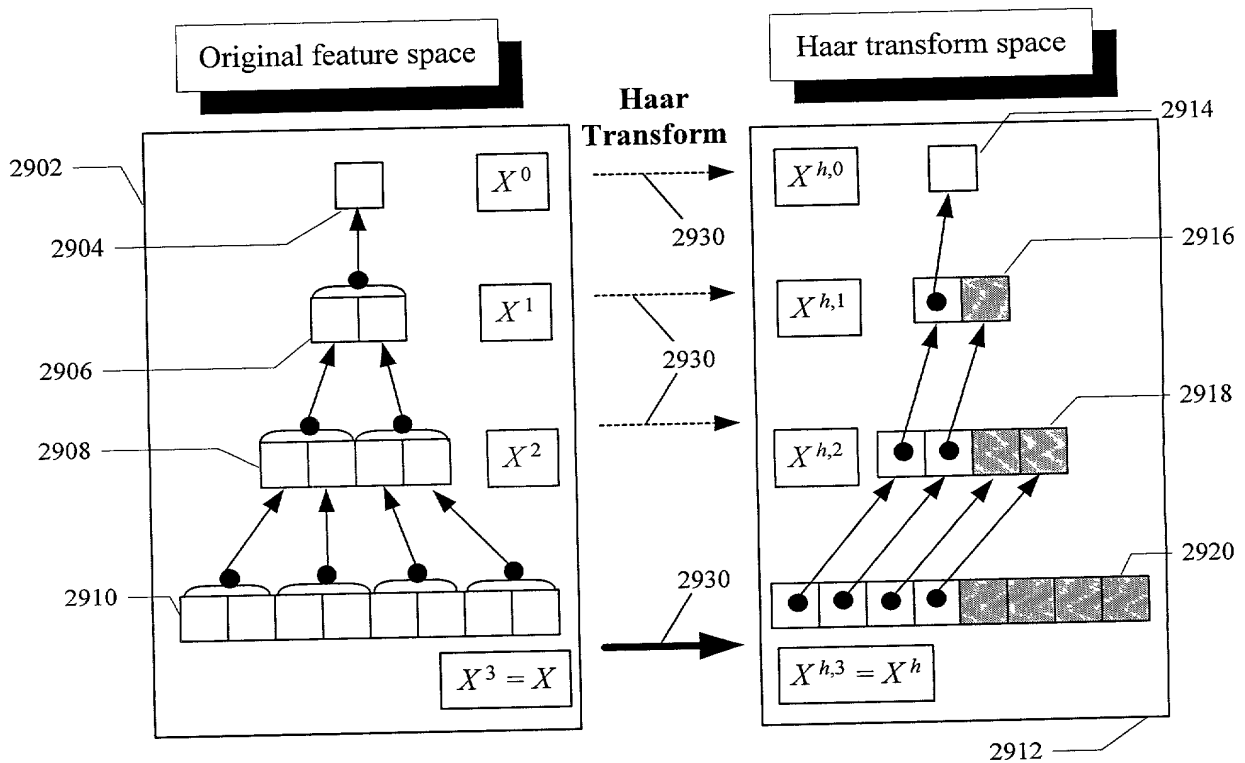


Figure 29

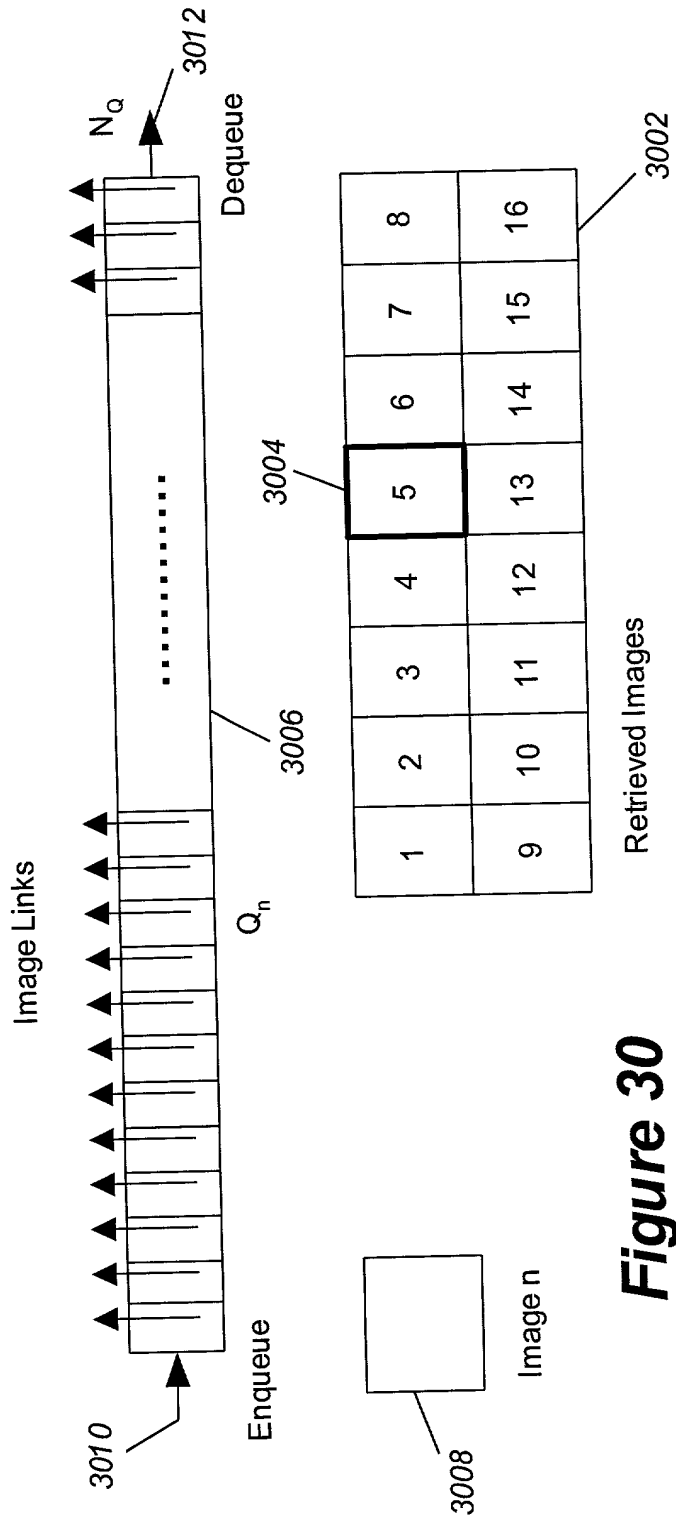


Figure 30

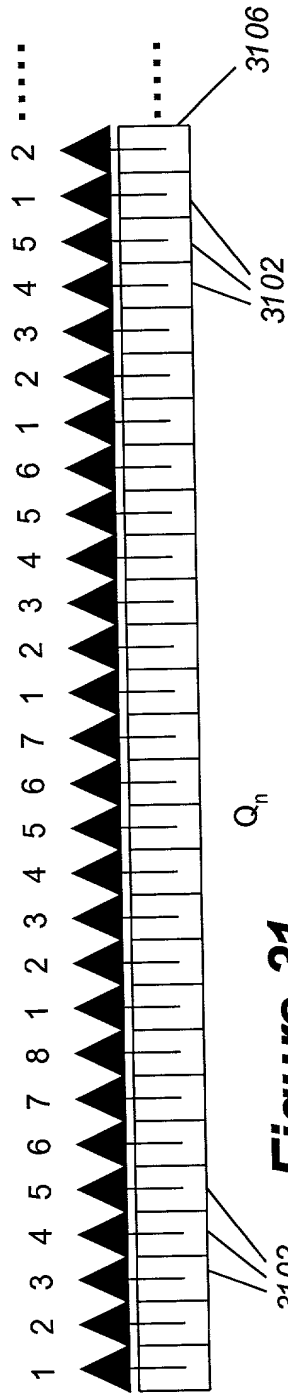


Figure 31

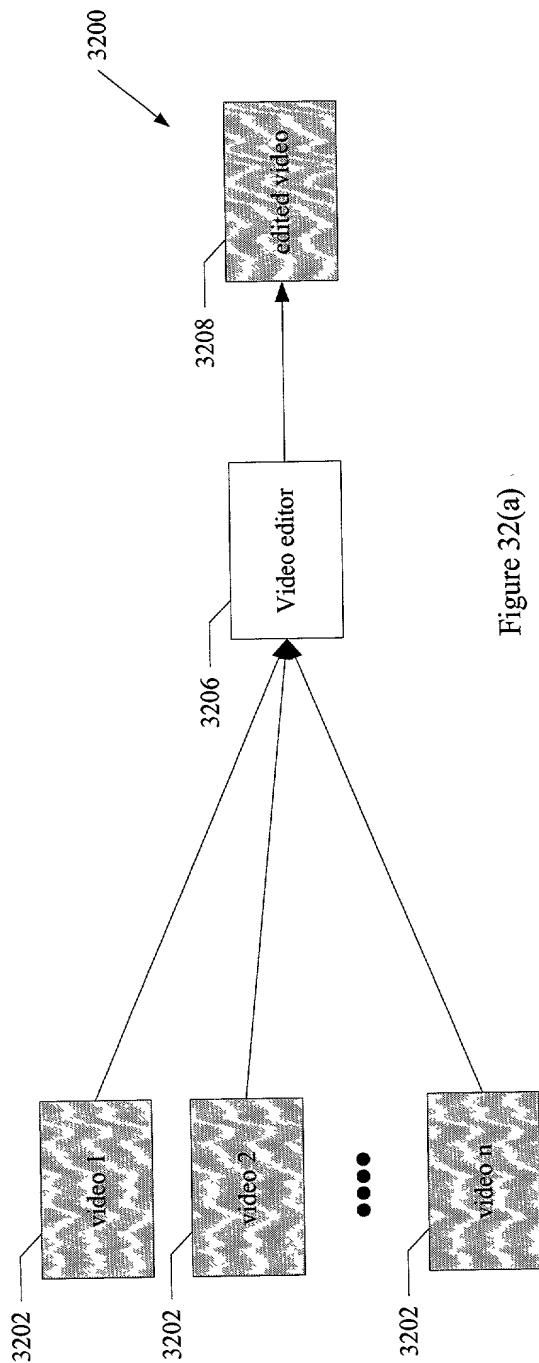


Figure 32(a)

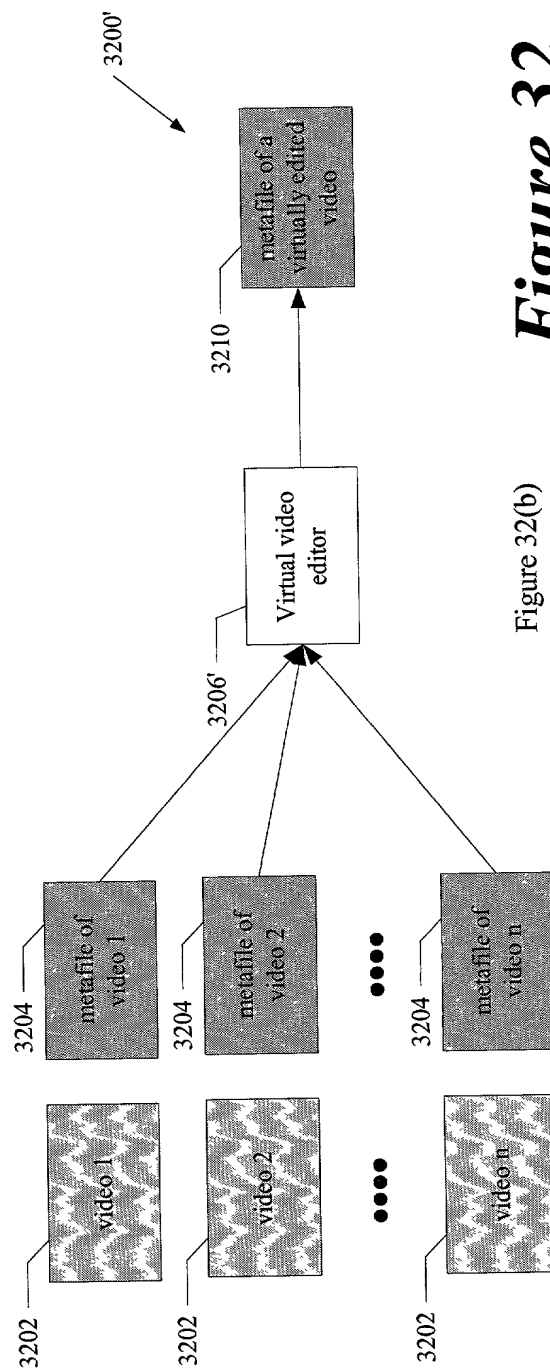


Figure 32

Figure 32(b)

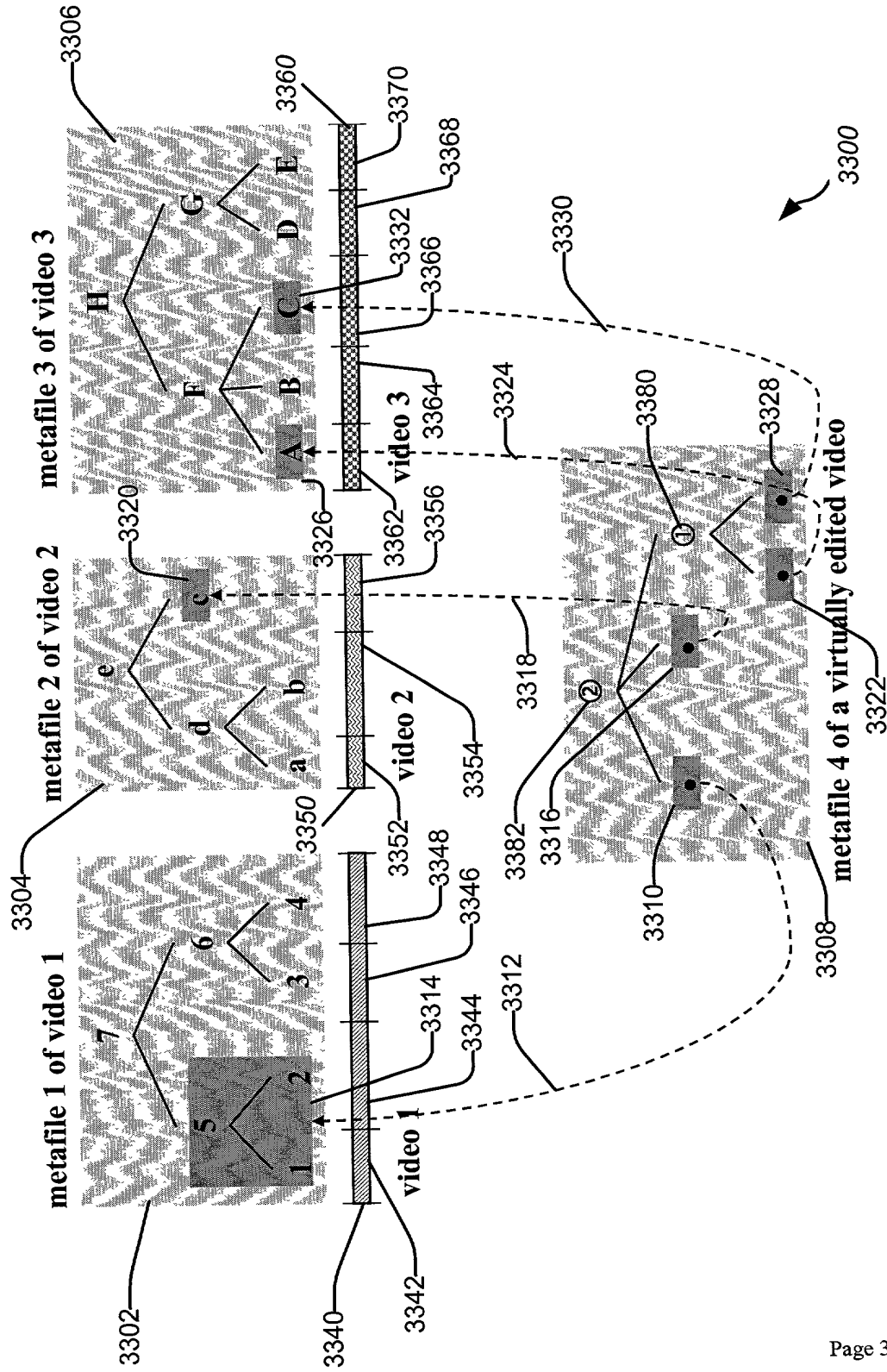


Figure 33

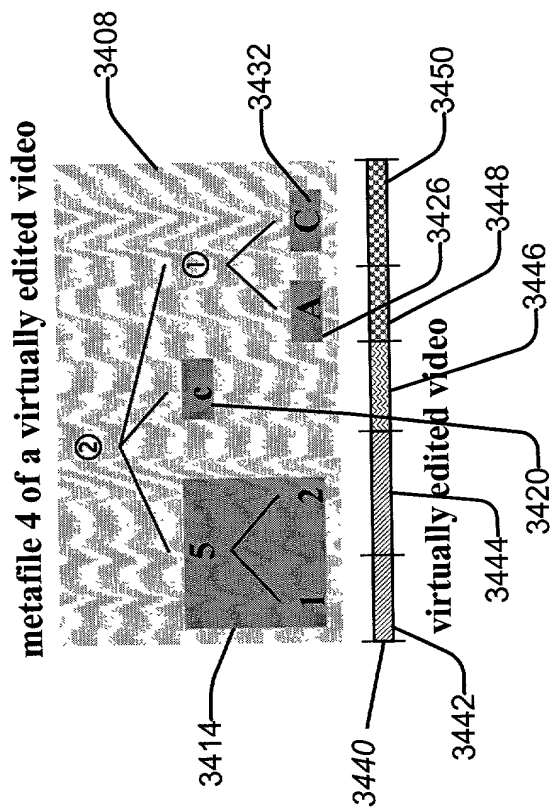


Figure 34

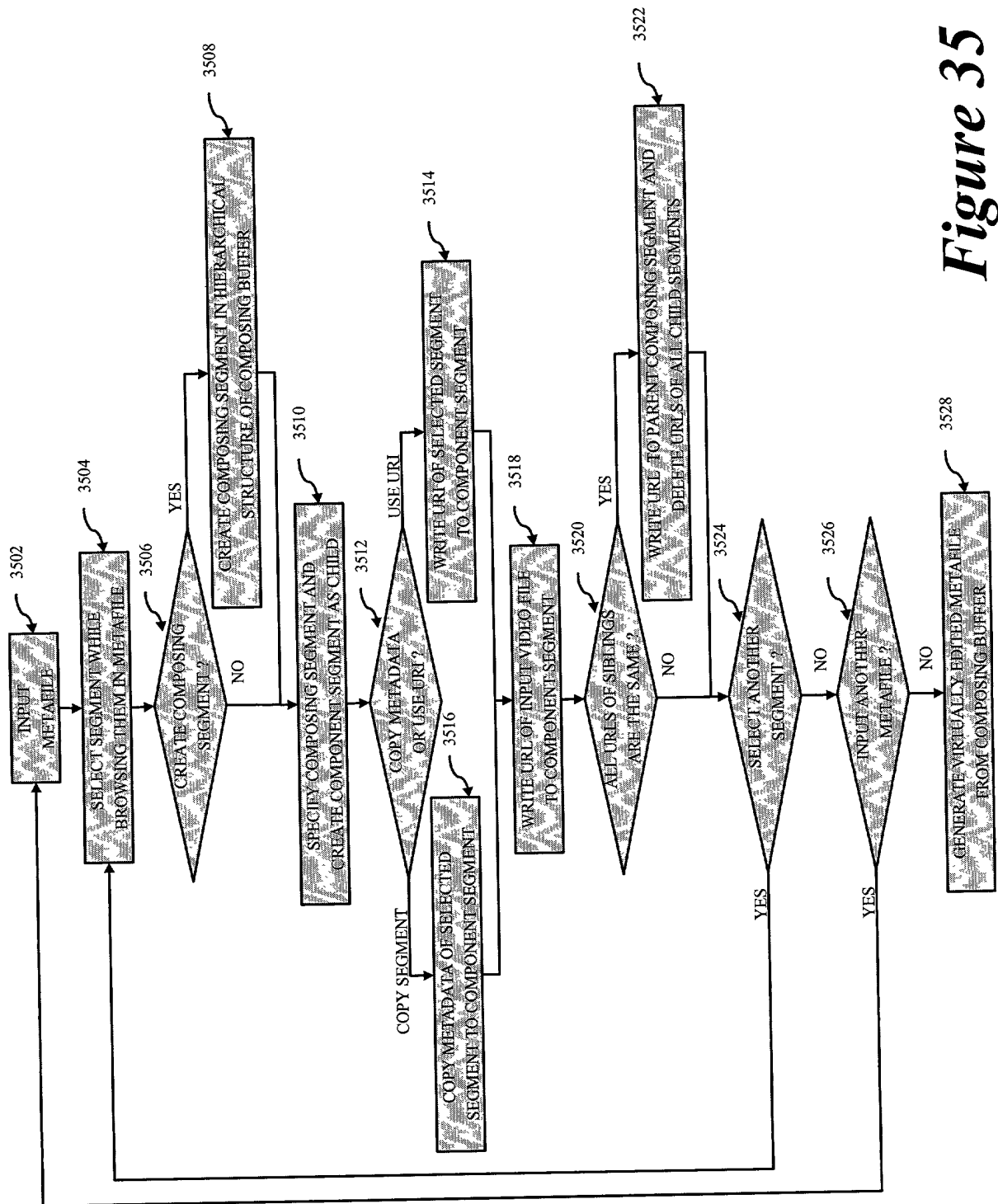


Figure 35

Figure 36

```
<!-- This is listing for metafile1.xml of the video1 stored at server1 -->
<Metadata>
  <Segment id="seg_7" title="segment 7" duration="580">
    <MediaURI> //www.video.server1/video1 </MediaURI>
    <StartTime> 0 </StartTime> <MediaDuration> 580 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  <Segment id="seg_5" title="segment 5" duration="300">
    <StartTime> 0 </StartTime> <MediaDuration> 300 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  <Segment id="seg_1" title="segment 1" duration="100">
    <StartTime> 0 </StartTime> <MediaDuration> 100 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_2" title="segment 2" duration="200">
    <StartTime> 100 </StartTime> <MediaDuration> 200 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>

  <Segment id="seg_6" title="segment 6" duration="280">
    <StartTime> 300 </StartTime> <MediaDuration> 280 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  <Segment id="seg_3" title="segment 3" duration="110">
    <StartTime> 300 </StartTime> <MediaDuration> 110 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_4" title="segment 4" duration="170">
    <StartTime> 410 </StartTime> <MediaDuration> 170 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>
</Metadata>
```

Figure 37

```
<!-- This is listing for metafile2.xml of the video2 stored at server1 -->
<Metadata>
  <Segment id="seg_e" title="segment e" duration="380">
    <MediaURI> //www.video.server1/video2 </MediaURI>
    <StartTime> 0 </StartTime> <MediaDuration> 380 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_d" title="segment d" duration="230">
    <StartTime> 0 </StartTime> <MediaDuration> 230 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  <Segment id="seg_a" title="segment a" duration="50">
    <StartTime> 0 </StartTime> <MediaDuration> 50 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_b" title="segment b" duration="180">
    <StartTime> 50 </StartTime> <MediaDuration> 180 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>

  <Segment id="seg_c" title="segment c" duration="150">
    <StartTime> 230 </StartTime> <MediaDuration> 150 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>
</Metadata>
```

Figure 38

```
<!-- This is listing for metafile3.xml of the video3 stored at server2. -->
<Metadata>
  <Segment id="seg_H" title="segment H" duration="620">
    <MediaURI> //www.video.server2/video3 </MediaURI>
    <StartTime> 0 </StartTime> <MediaDuration> 620 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_F" title="segment F" duration="410">
    <StartTime> 0 </StartTime> <MediaDuration> 410 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_A" title="segment A" duration="80">
    <StartTime> 0 </StartTime> <MediaDuration> 80 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_B" title="segment B" duration="150">
    <StartTime> 80 </StartTime> <MediaDuration> 150 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_C" title="segment C" duration="180">
    <StartTime> 230 </StartTime> <MediaDuration> 180 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>

  <Segment id="seg_G" title="segment G" duration="210">
    <StartTime> 410 </StartTime> <MediaDuration> 210 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  <Segment id="seg_D" title="segment D" duration="110">
    <StartTime> 410 </StartTime> <MediaDuration> 110 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
  <Segment id="seg_E" title="segment E" duration="100">
    <StartTime> 520 </StartTime> <MediaDuration> 100 </MediaDuration>
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....
  </Segment>
</Segment>
</Metadata>
```

Figure 39

```

<!-- This is listing for metafile4.xml of the virtually edited video -->
<!-- according to the "copy metadata of selected segment" method. -->
<Metadata>
  <Segment id="seg_0" title="segment 0" duration="710">
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....

    <Segment id="seg_5" title="segment 5" duration="300">
      <MediaURI> //www.video.server1/video1 </MediaURI>
      <StartTime> 0 </StartTime> <MediaDuration> 300 </MediaDuration>
      <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
      ....

      <Segment id="seg_1" title="segment 1" duration="100">
        <StartTime> 0 </StartTime> <MediaDuration> 100 </MediaDuration>
        <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
        ....

      </Segment>
      <Segment id="seg_2" title="segment 2" duration="200">
        <StartTime> 100 </StartTime> <MediaDuration> 200 </MediaDuration>
        <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
        ....

      </Segment>
    </Segment>

    <Segment id="seg_c" title="segment c" duration="150">
      <MediaURI> //www.video.server1/video2 </MediaURI>
      <StartTime> 230 </StartTime> <MediaDuration> 150 </MediaDuration>
      <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
      ....

    </Segment>

    <Segment id="seg_0" title="segment 0" duration="260">
      <MediaURI> //www.video.server2/video3 </MediaURI>
      <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
      ....

      <Segment id="seg_A" title="segment A" duration="80">
        <StartTime> 0 </StartTime> <MediaDuration> 80 </MediaDuration>
        <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
        ....

      </Segment>
      <Segment id="seg_C" title="segment C" duration="180">
        <StartTime> 230 </StartTime> <MediaDuration> 180 </MediaDuration>
        <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
        ....

      </Segment>
    </Segment>

  </Segment>
</Metadata>

```

Figure 40

```
<!-- This is listing for metafile4.xml of the virtually edited video -->
<!-- according to the "write URI of selected segment" method. -->
<Metadata>
  <Segment id="seg_②" title="segment ②" duration="710">
    <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
    ....

    <Segment xlink:form="simple" show="embed"
      href="//www.video.server1/metafile1.xml#id(seg 5)">
      <MediaURI> //www.video.server1/video1 </MediaURI>
    </Segment>

    <Segment xlink:form="simple" show="embed"
      href="//www.video.server1/metafile2.xml#id(seg c)">
      <MediaURI> //www.video.server1/video2 </MediaURI>
    </Segment>

    <Segment id="seg_①" title="segment ①" duration="260">
      <MediaURI> //www.video.server2/video3 </MediaURI>
      <Keyframe> .... </Keyframe> <Annotation> .... </Annotation>
      ....
      <Segment xlink:form="simple" show="embed"
        href="//www.video.server2/metafile3.xml#id(seg A)">
      </Segment>
      <Segment xlink:form="simple" show="embed"
        href="//www.video.server2/metafile3.xml#id(seg C)">
      </Segment>
    </Segment>

  </Segment>
</Metadata>
```

Figure 41

```
<!-- This is play list for a root segment of metafile4.xml -->
<Playlist>
  <MediaSegment>
    <MediaURI> //www.video.server1/video1 </MediaURI>
    <StartTime> 0 </StartTime> <MediaDuration> 300 </MediaDuration>
  </MediaSegment>

  <MediaSegment>
    <MediaURI> //www.video.server1/video2 </MediaURI>
    <StartTime> 230 </StartTime> <MediaDuration> 150 </MediaDuration>
  </MediaSegment>

  <MediaSegment>
    <MediaURI> //www.video.server2/video3 </MediaURI>
    <StartTime> 0 </StartTime> <MediaDuration> 80 </MediaDuration>
  </MediaSegment>

  <MediaSegment>
    <MediaURI> //www.video.server2/video3 </MediaURI>
    <StartTime> 230 </StartTime> <MediaDuration> 180 </MediaDuration>
  </MediaSegment>
</Playlist>
```

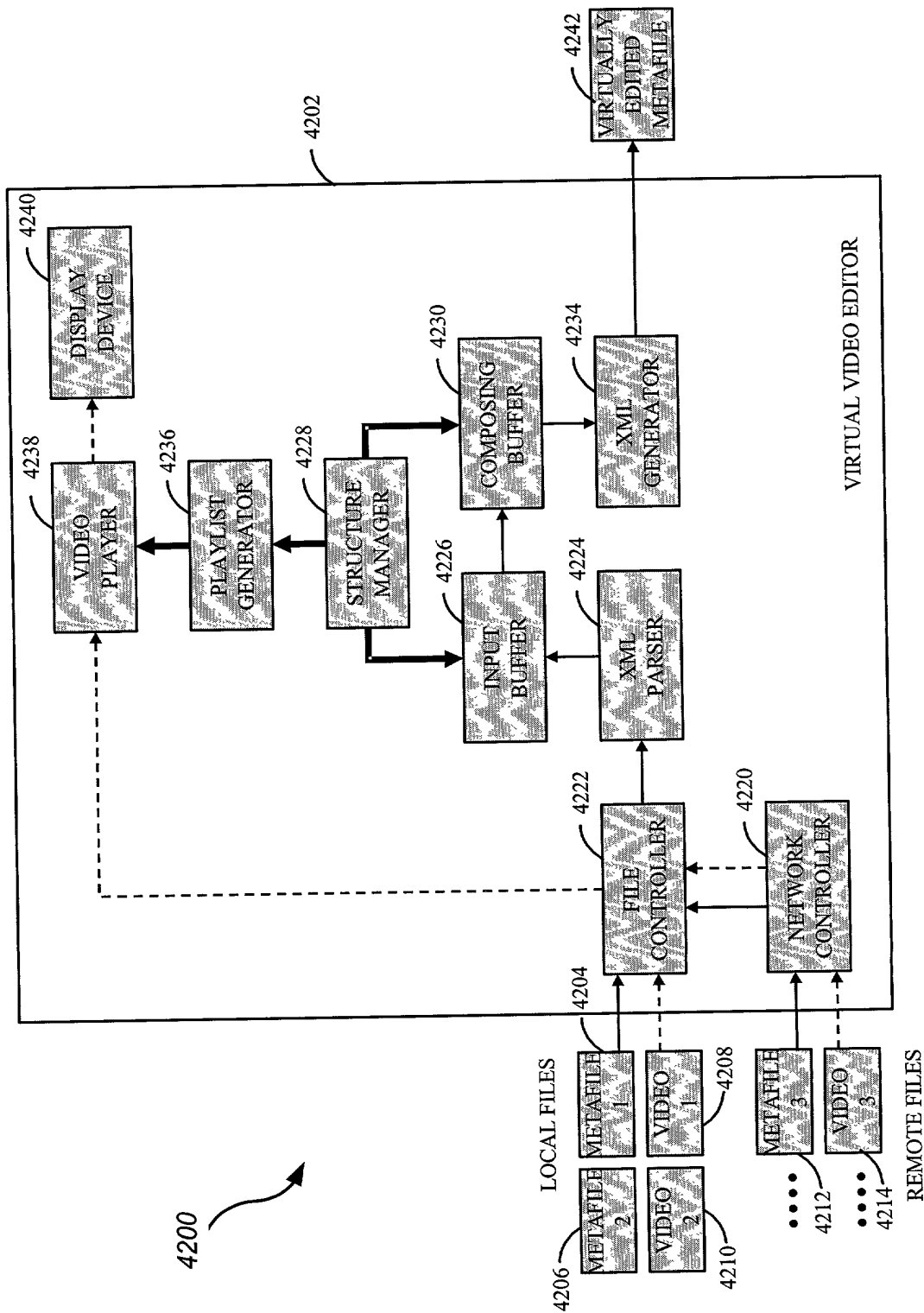
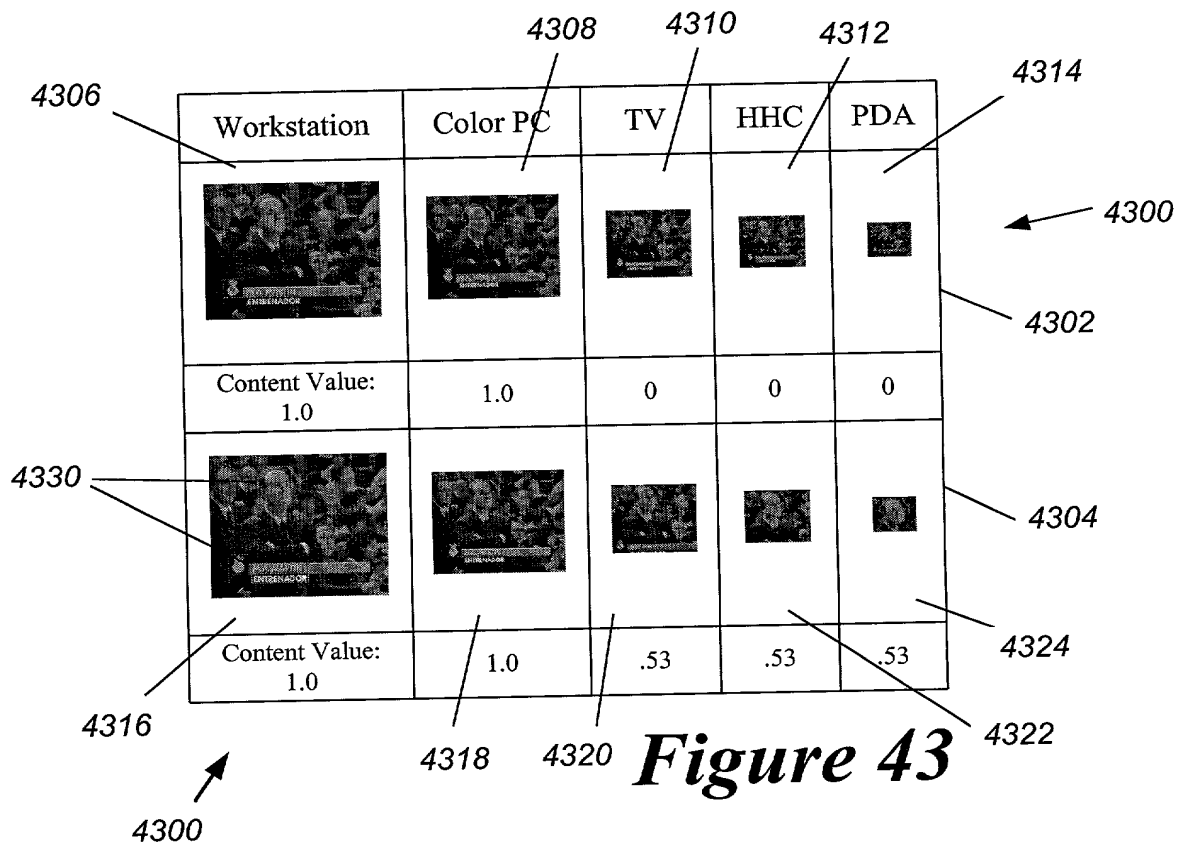












Figure 42



	4406 Workstation	4408 Color PC	4410 TV	4412 HHC	4414 PDA	
						4400 4402
	Content Value: 1.0	1.0	0	0	0	
4430						4404
	Content Value: 1.0	1.0	1.0	.78	.78	4424

4416 4418 4420 4422

Figure 44

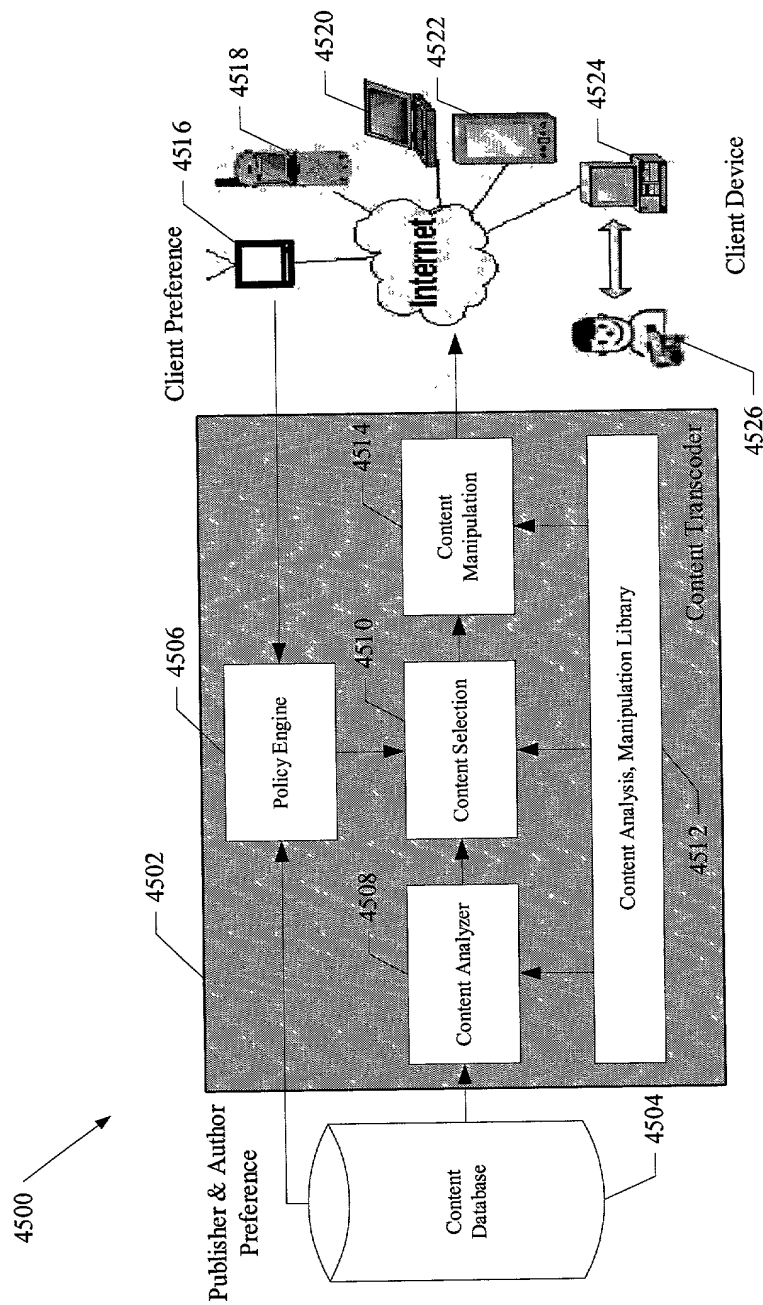


Figure 45

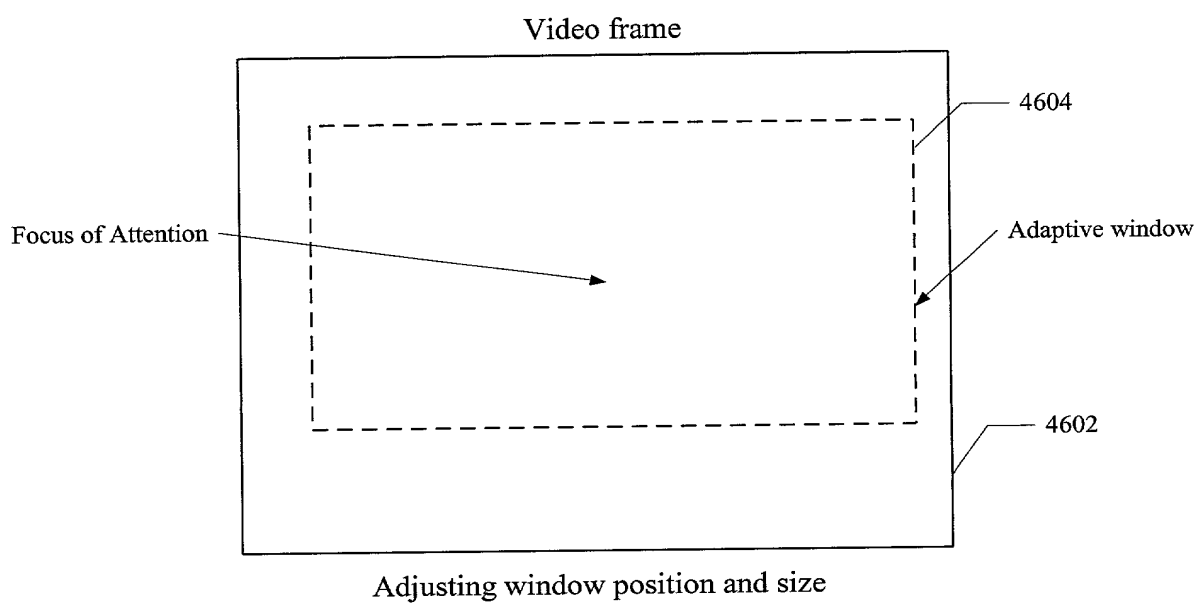


Figure 46

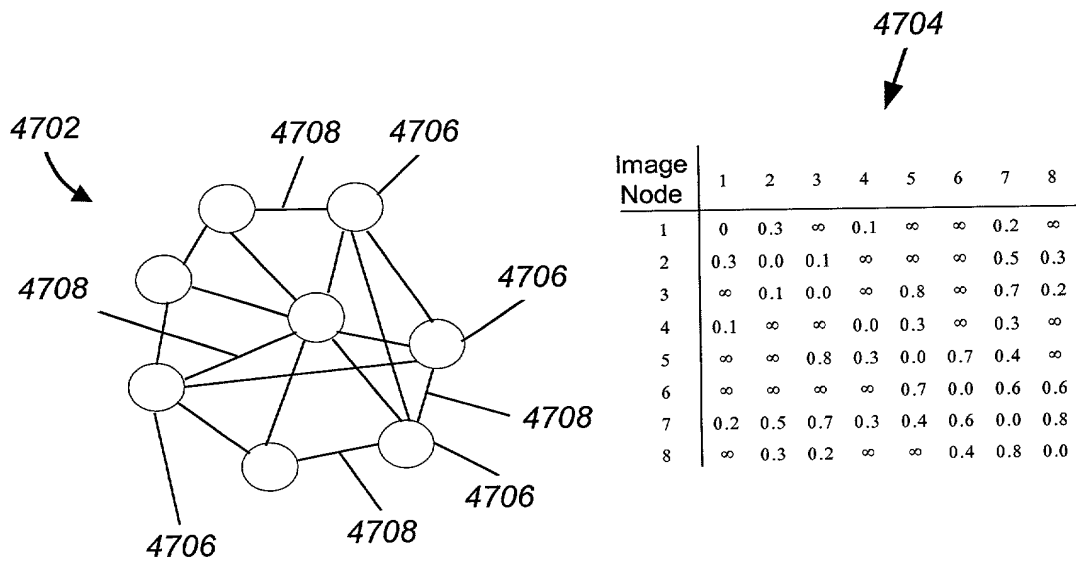


Figure 47

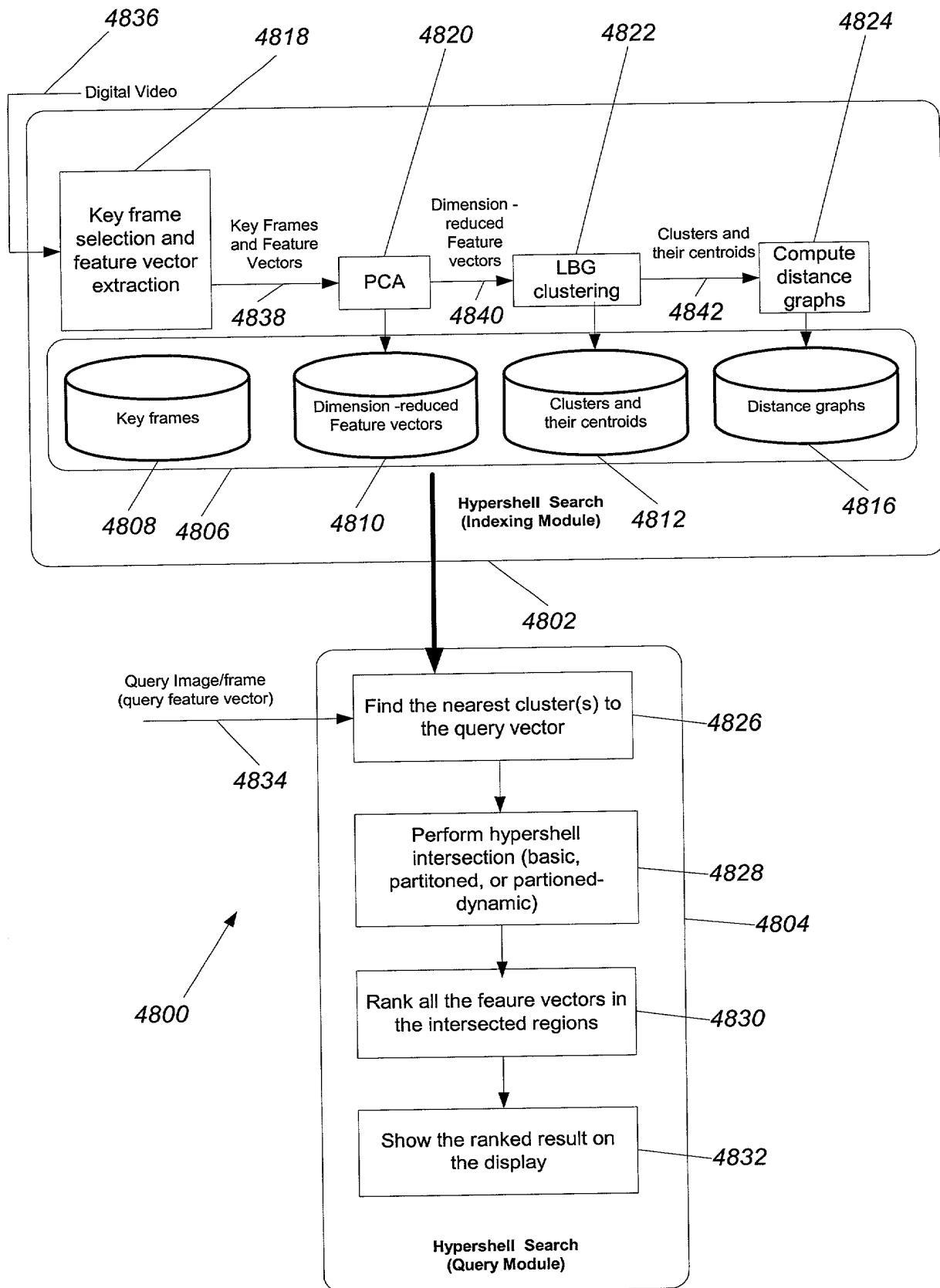


Figure 48

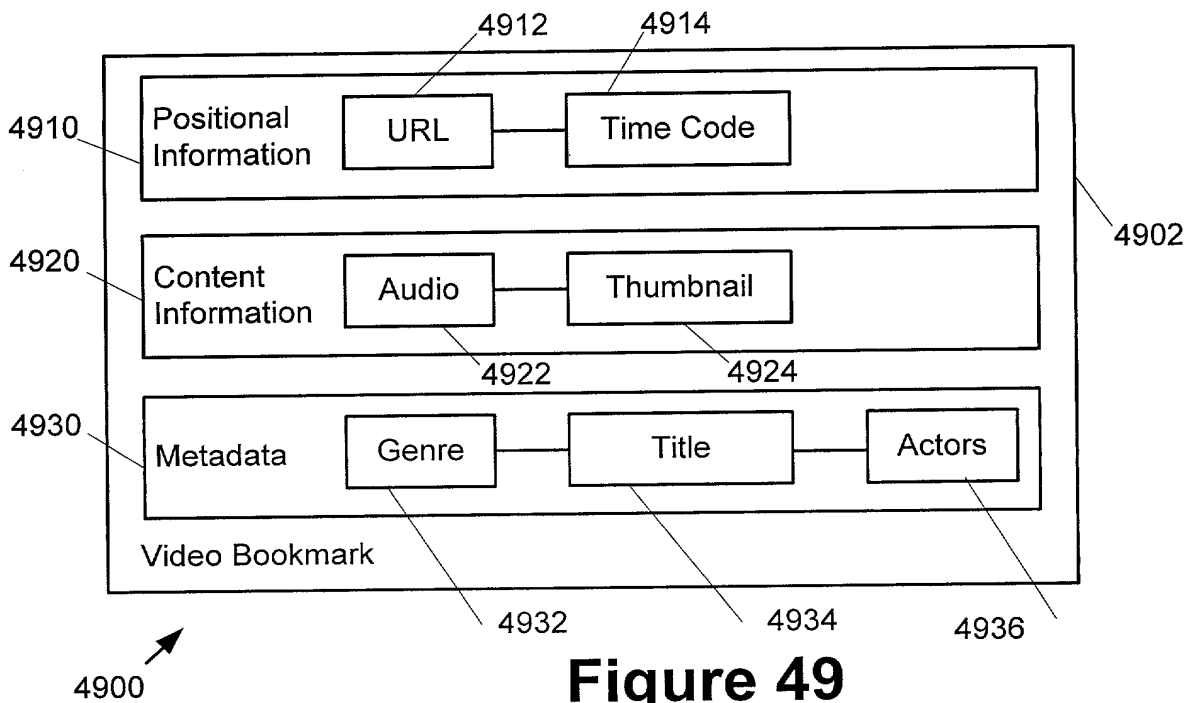


Figure 49

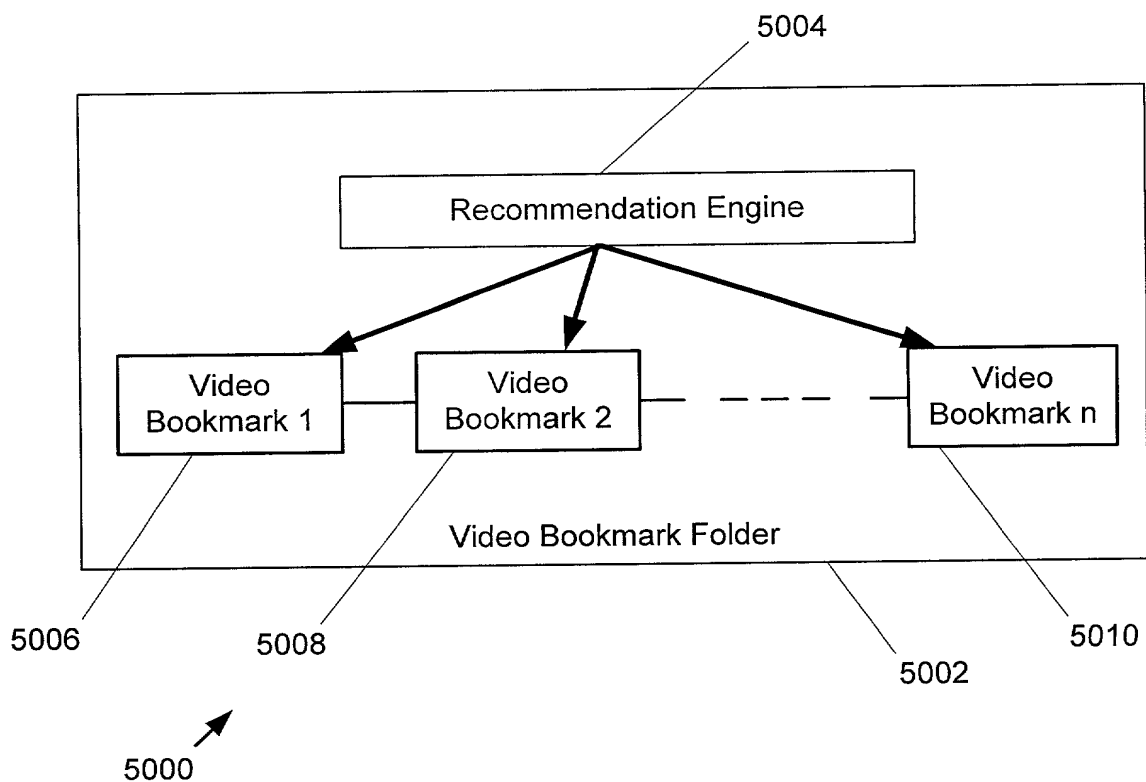


Figure 50

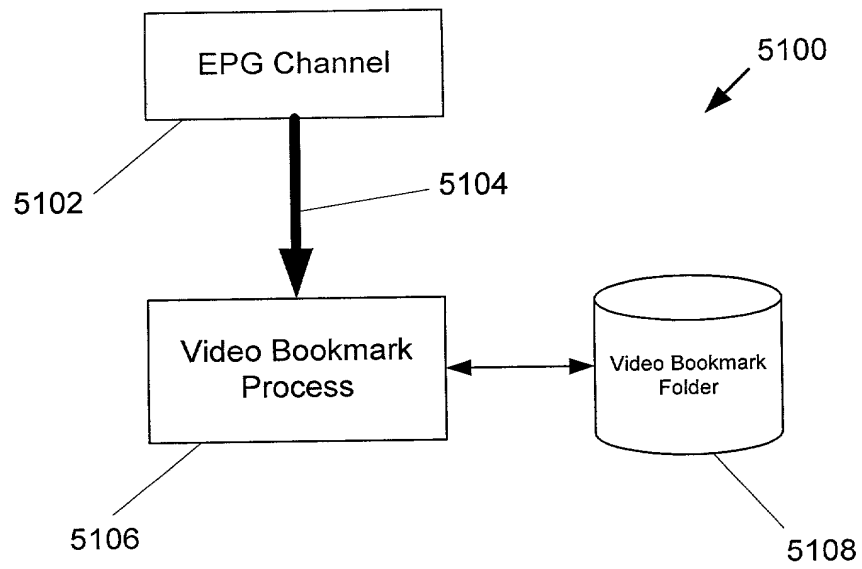


Figure 51

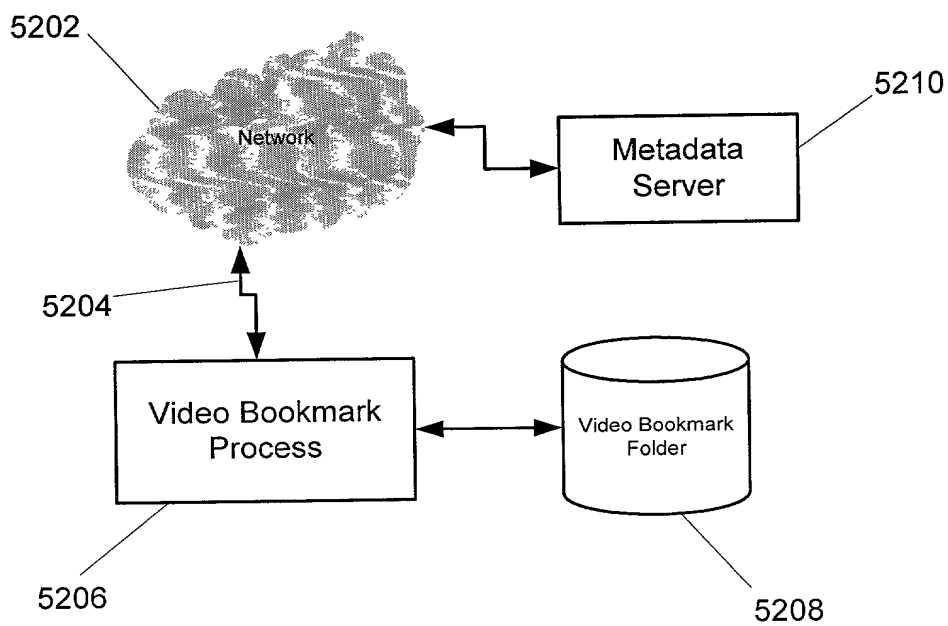
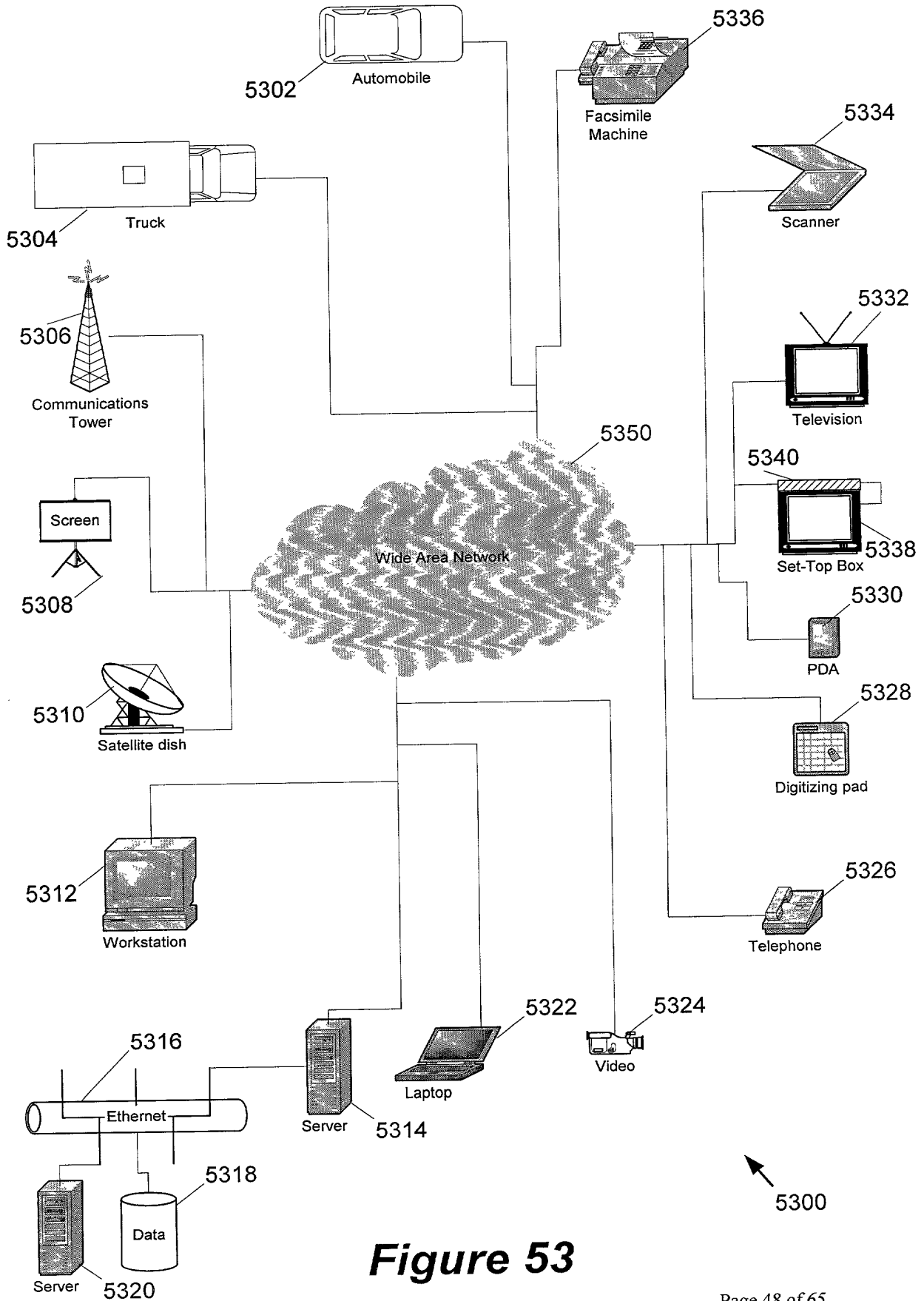


Figure 52



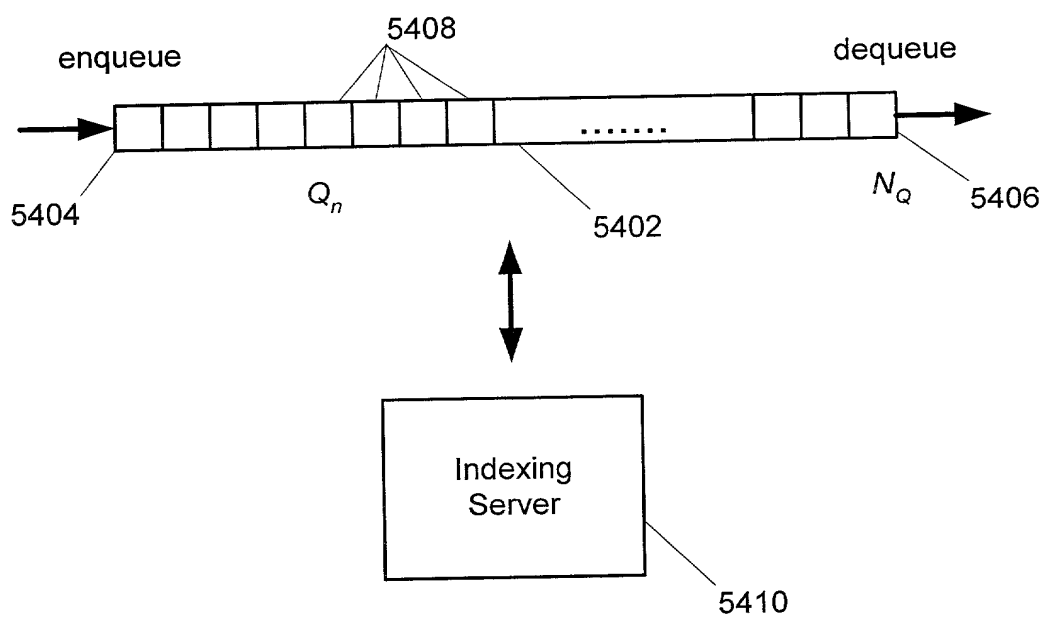


Figure 54

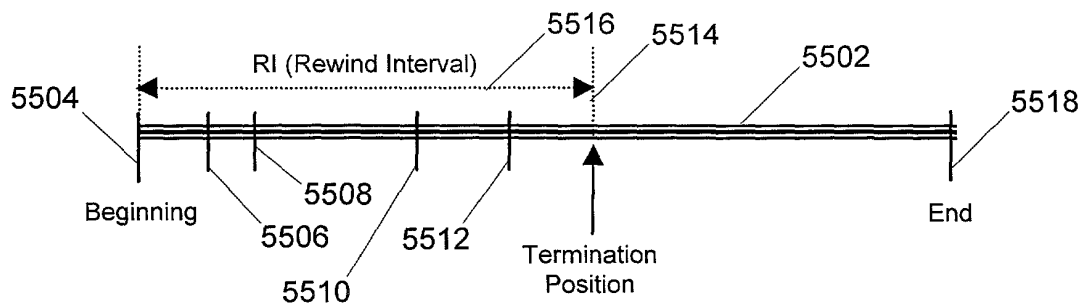


Figure 55

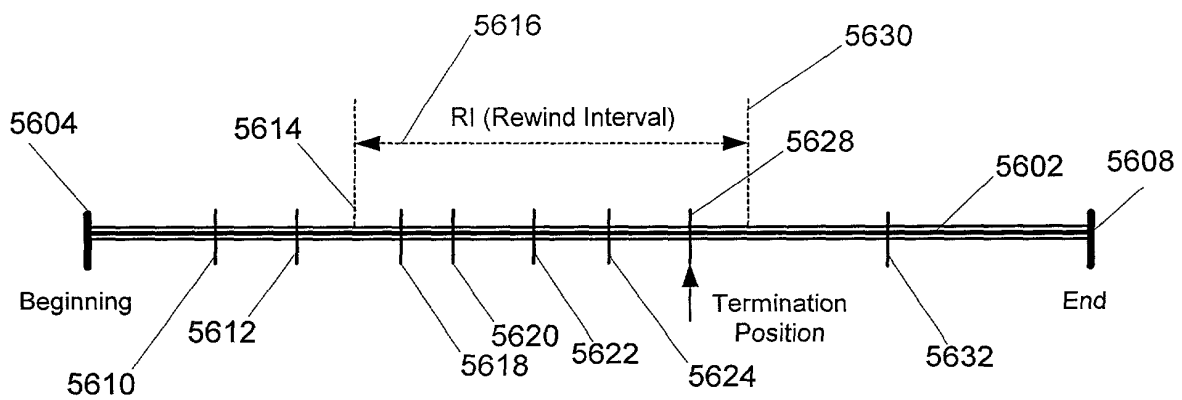


Figure 56

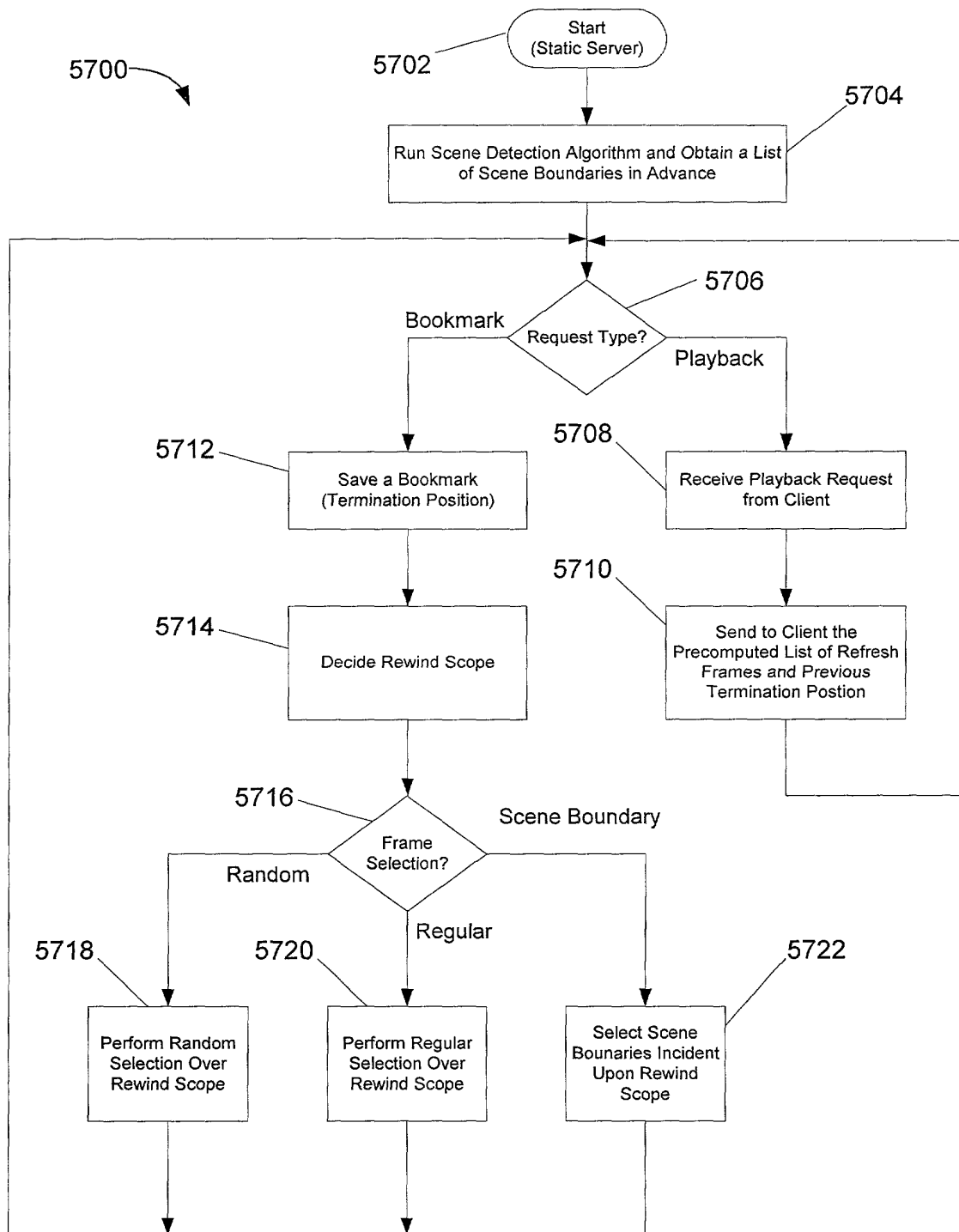
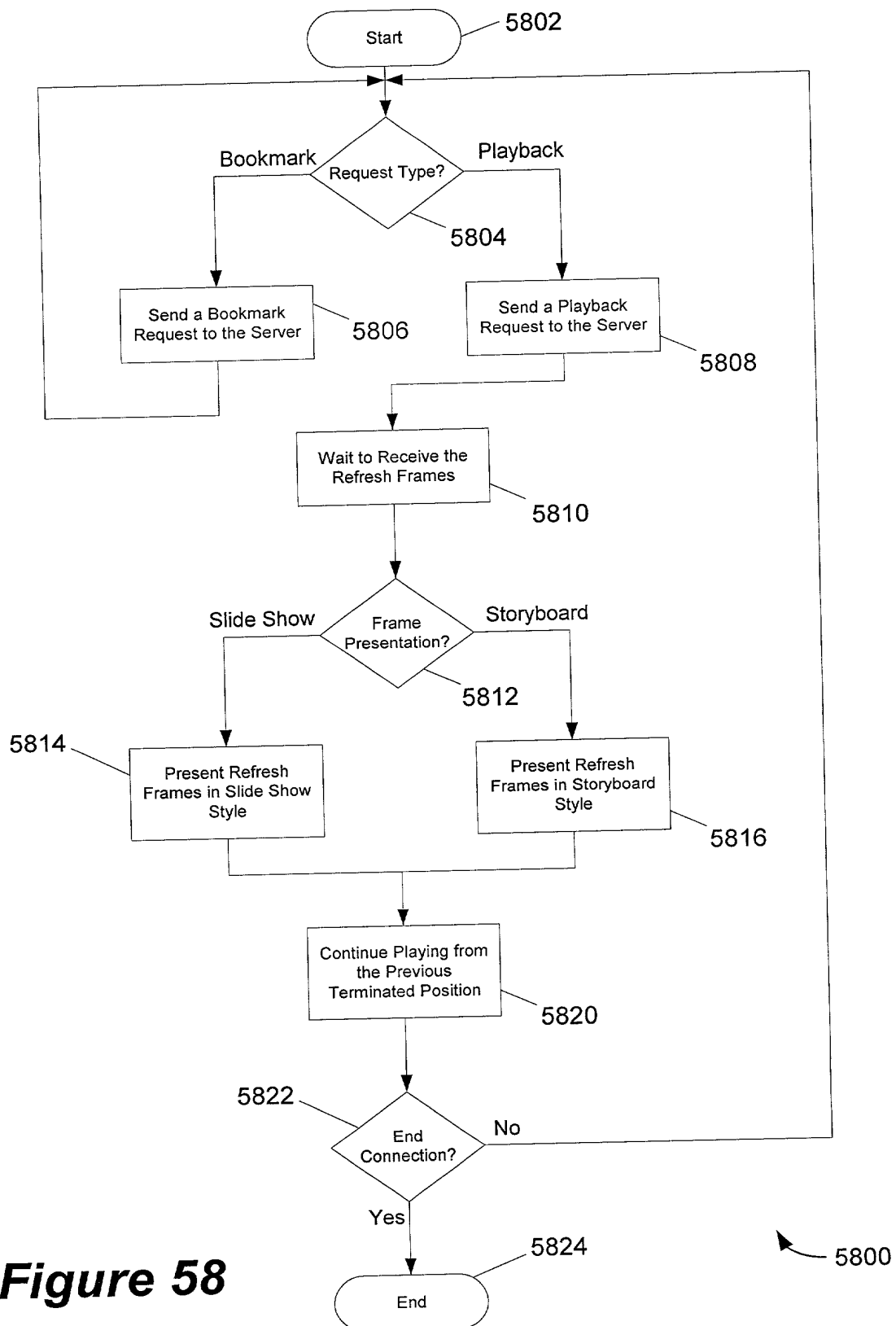


Figure 57



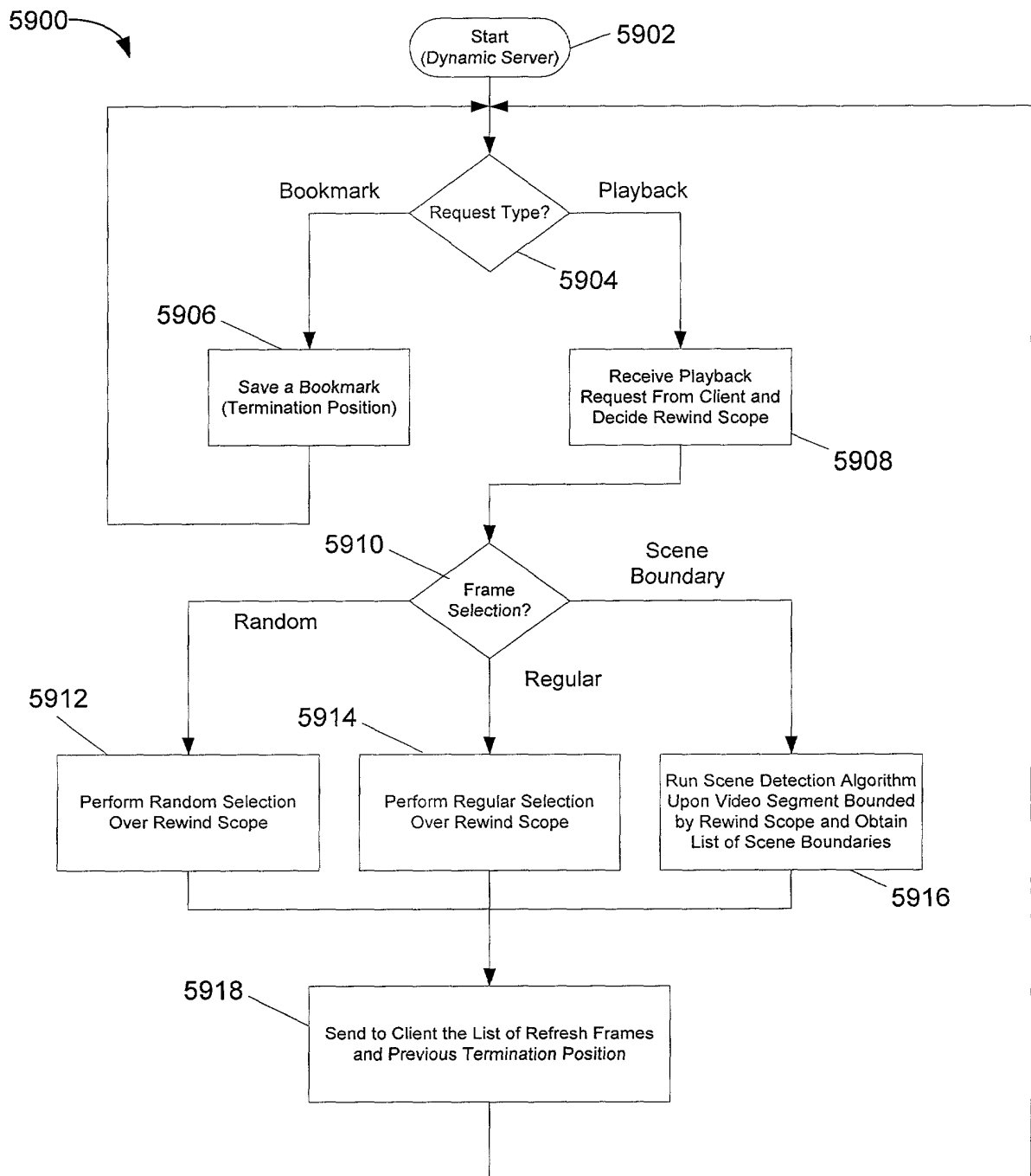


Figure 59

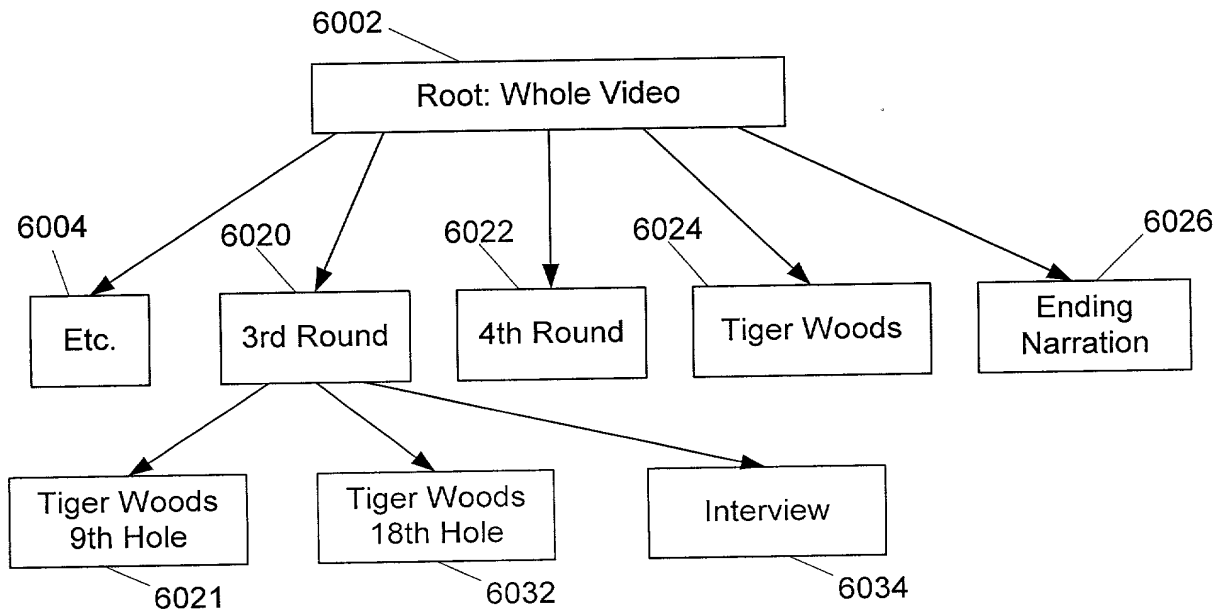


Figure 60

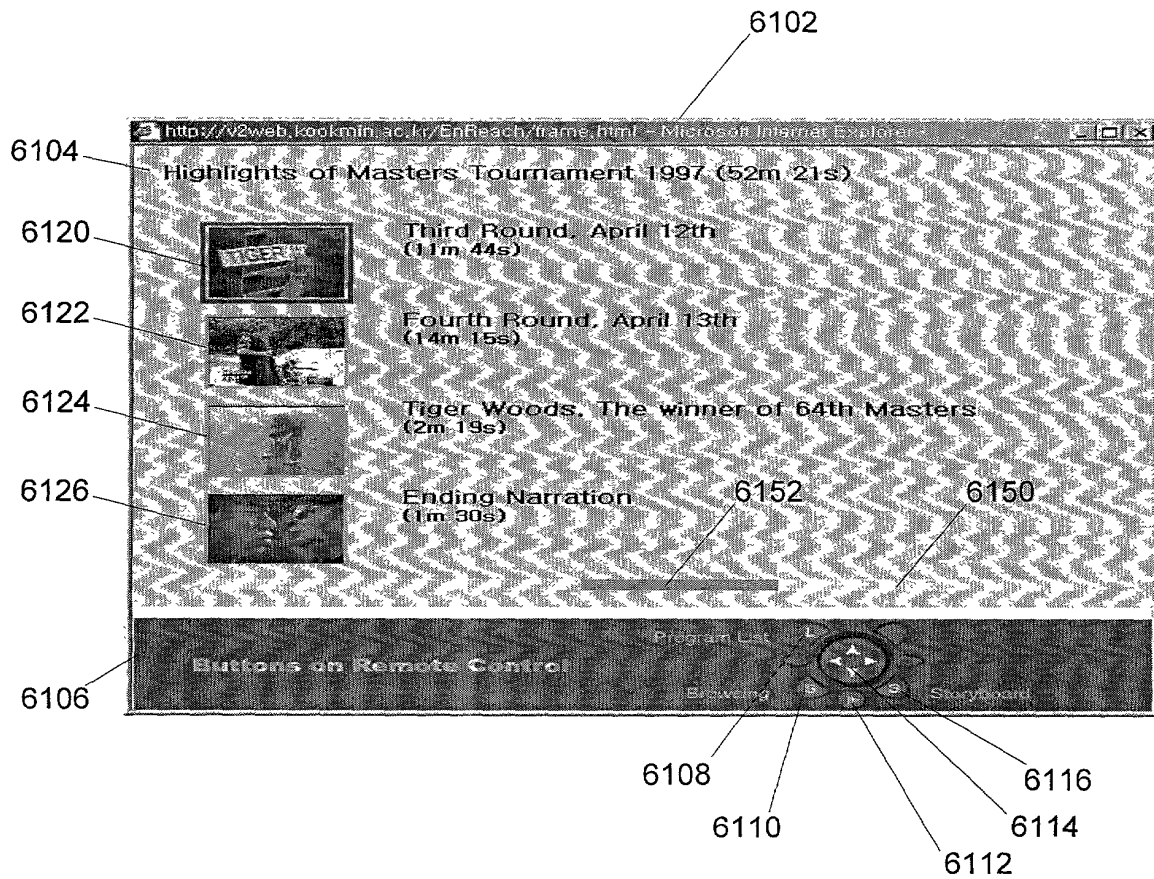


Figure 61

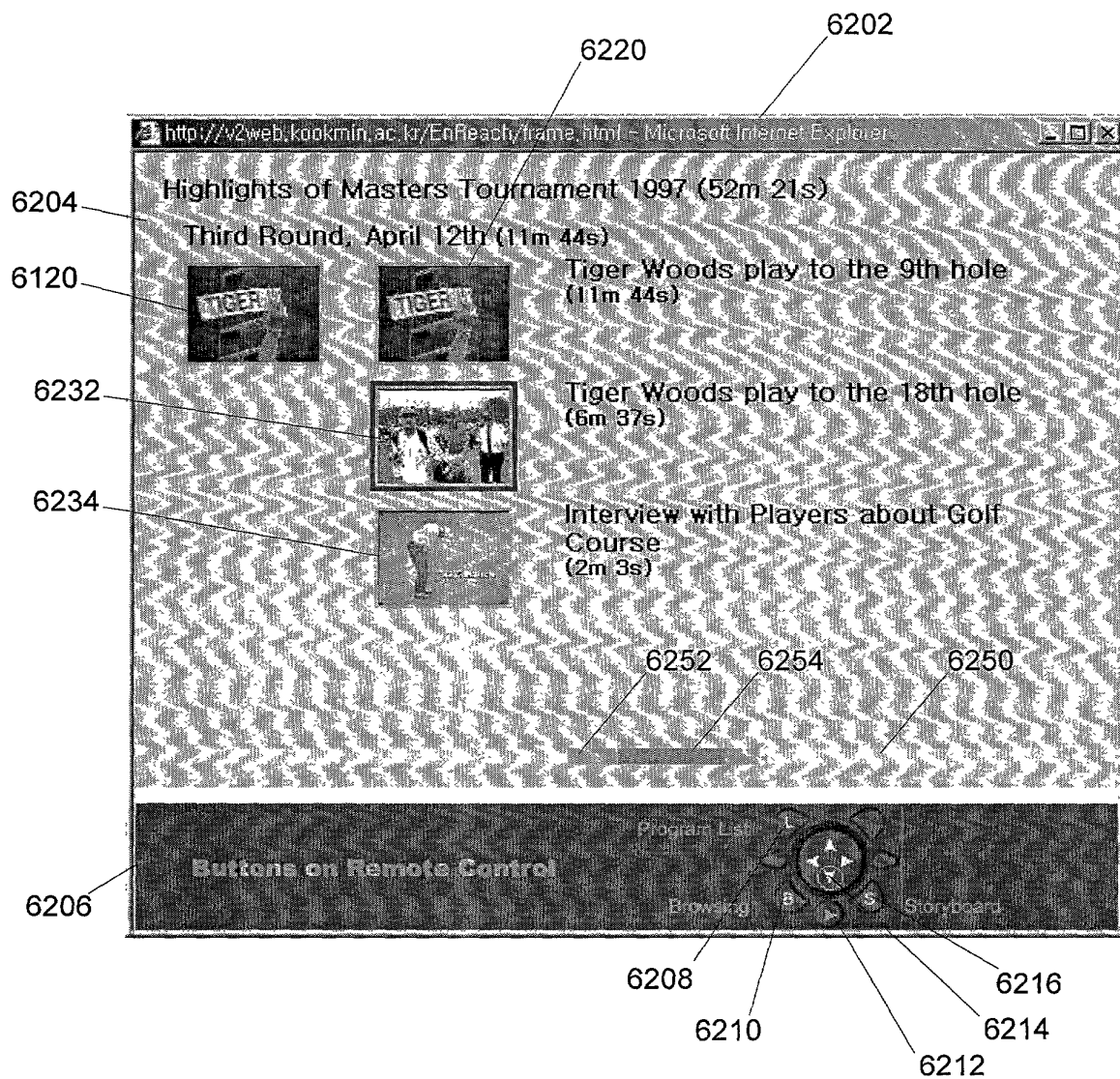


Figure 62

Figure 63

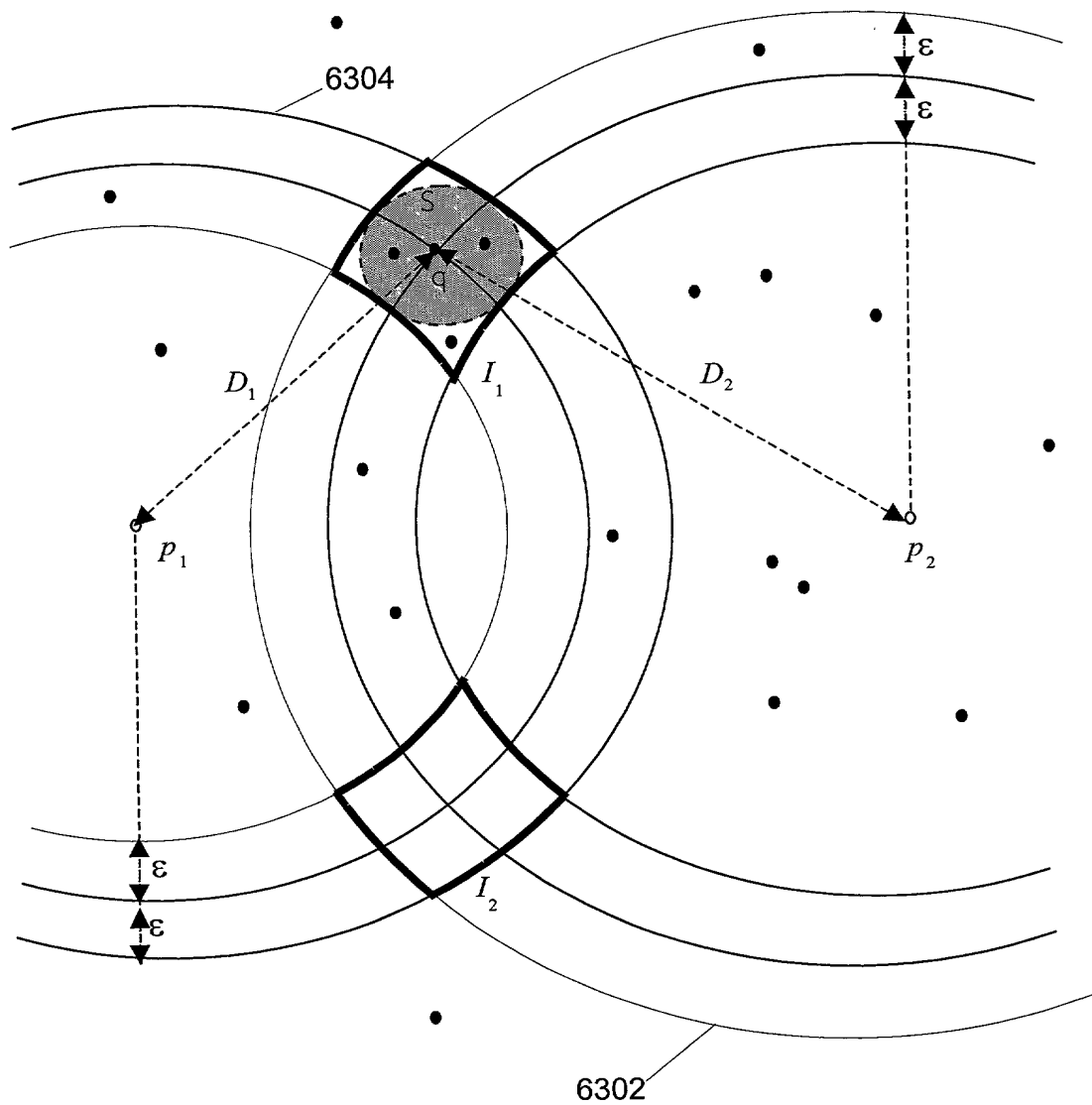


Figure 63

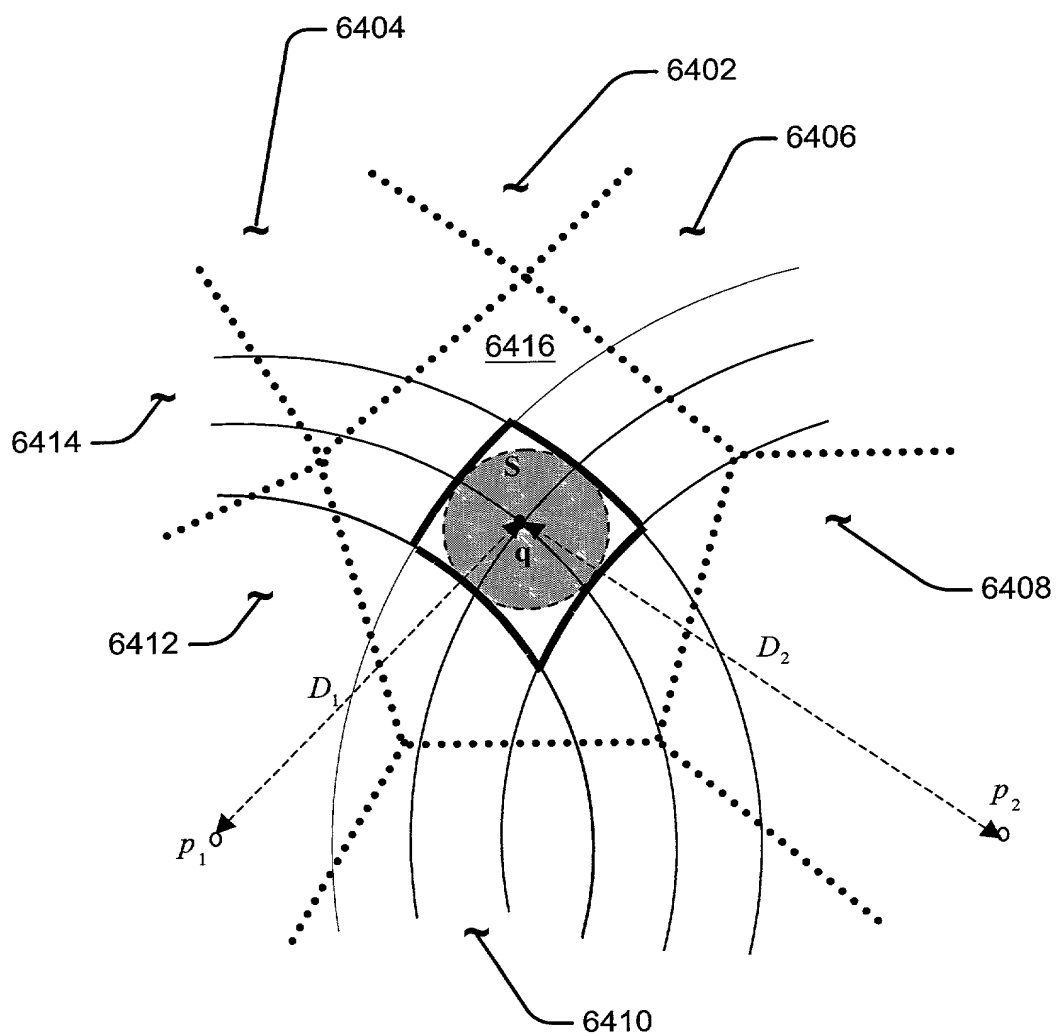


Figure 64

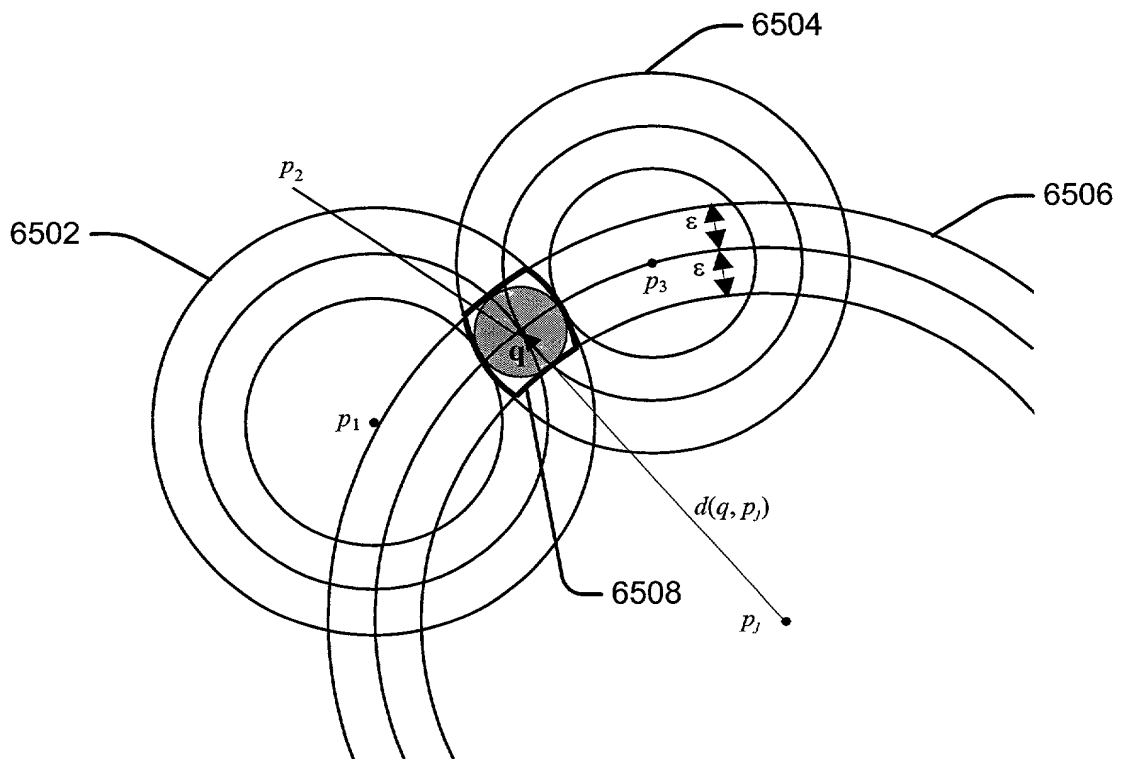


Figure 65

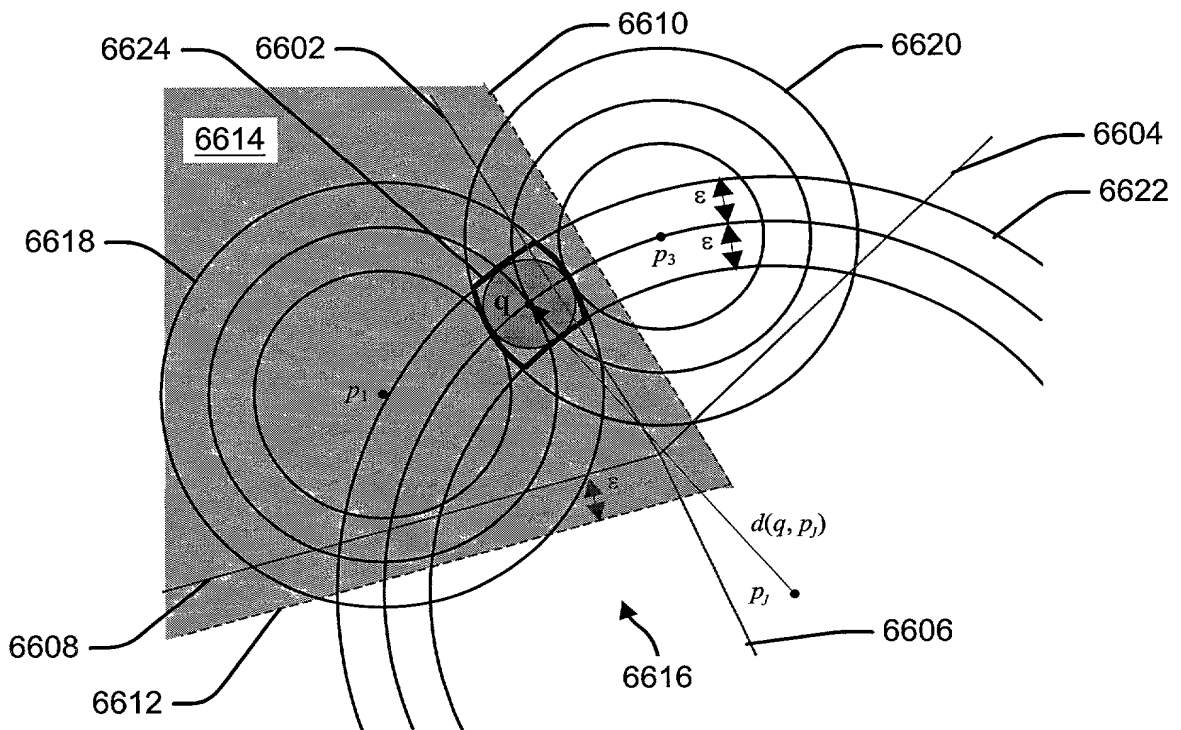


Figure 66

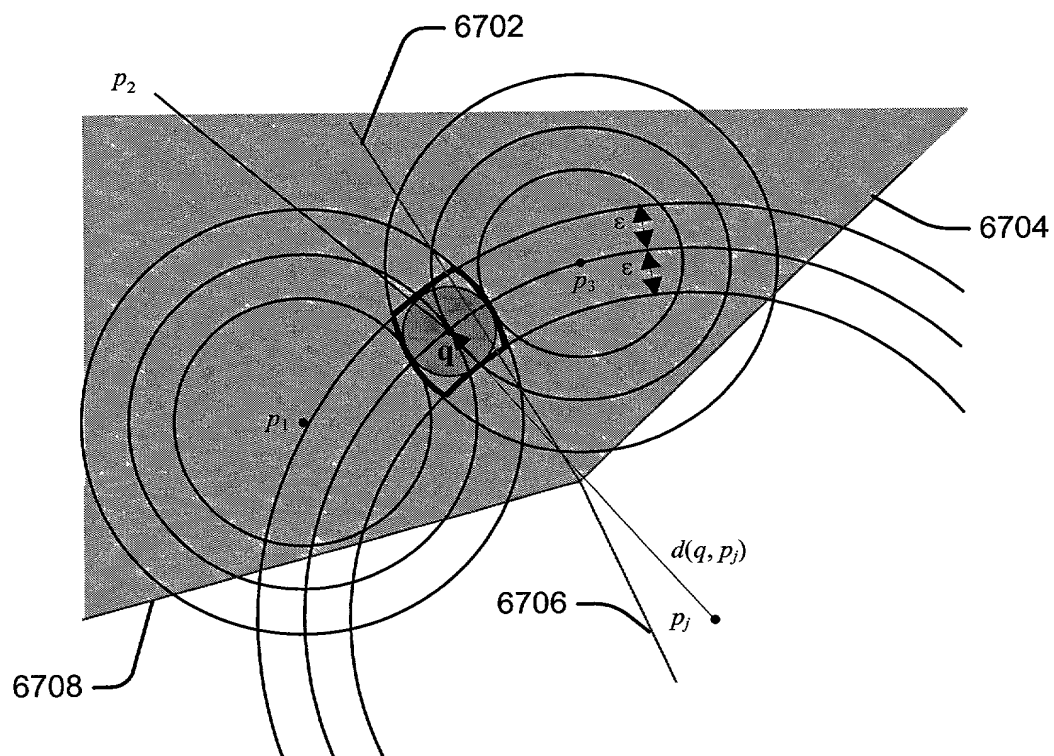


Figure 67

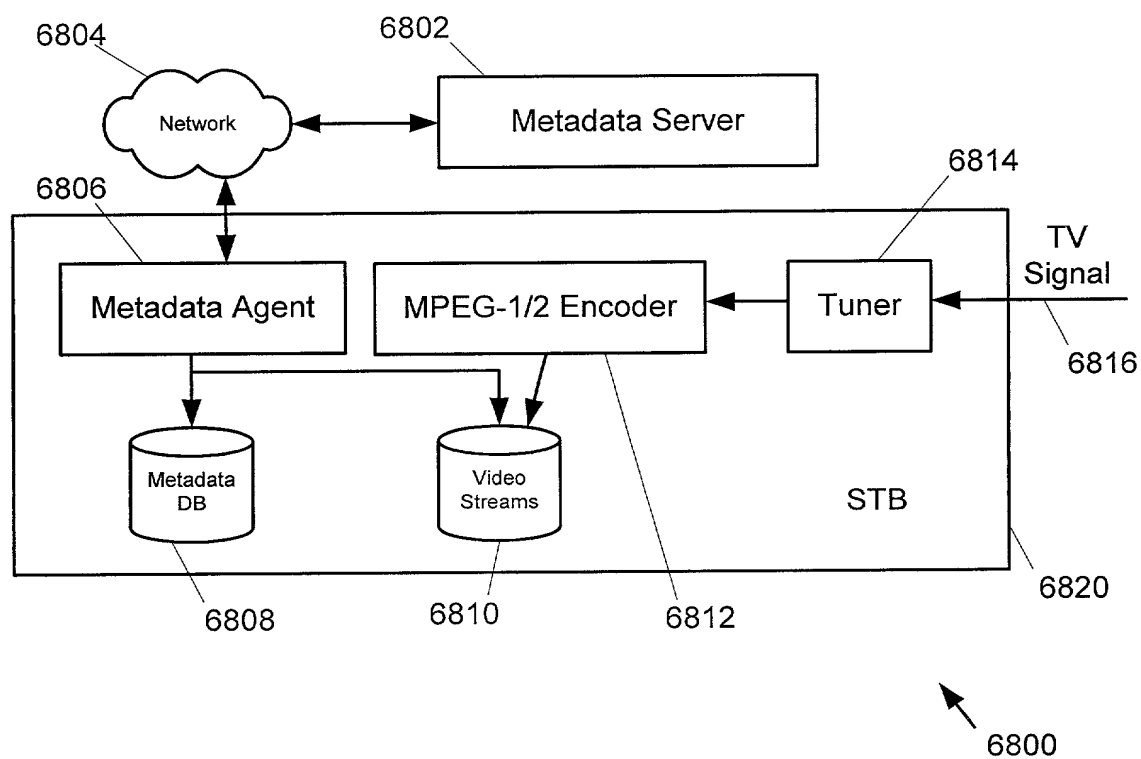


Figure 68

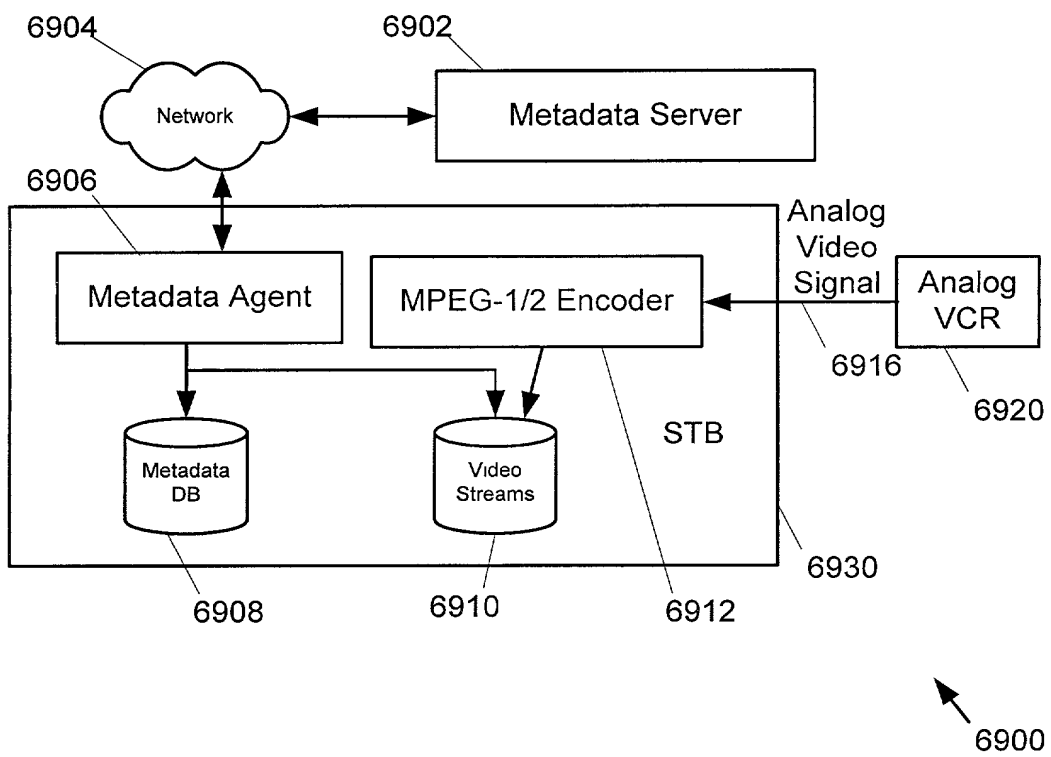


Figure 69

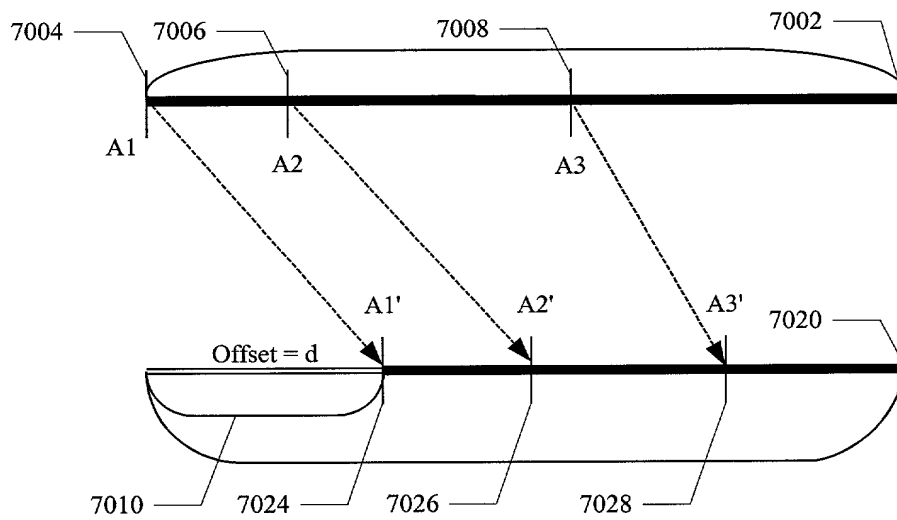


Figure 70

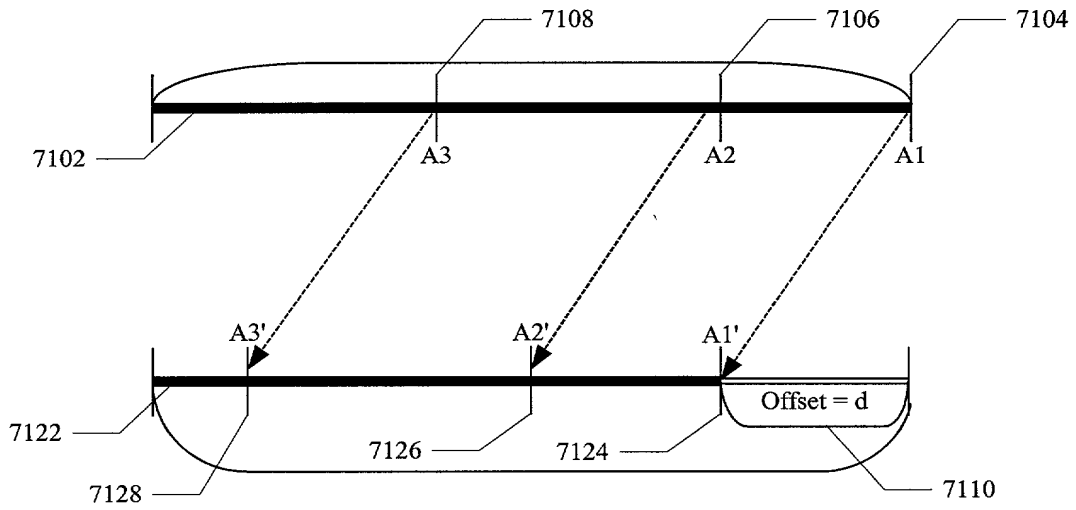


Figure 71

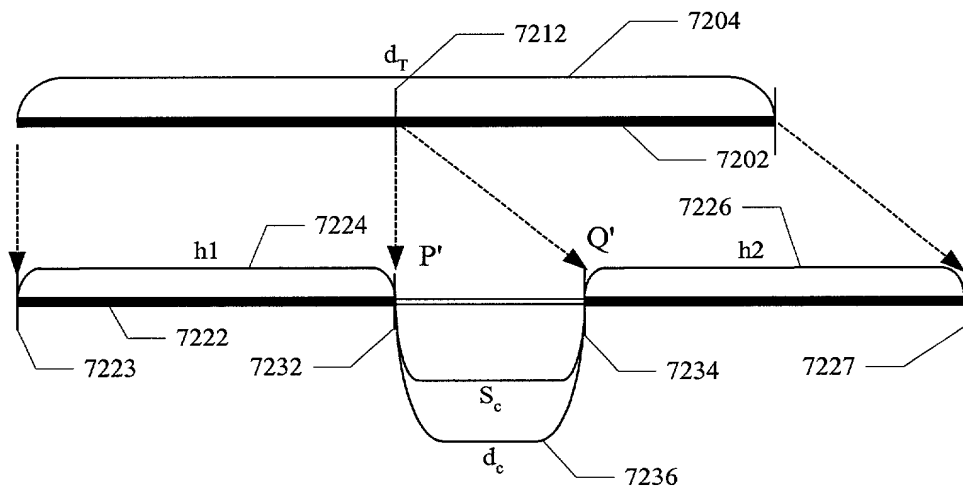


Figure 72

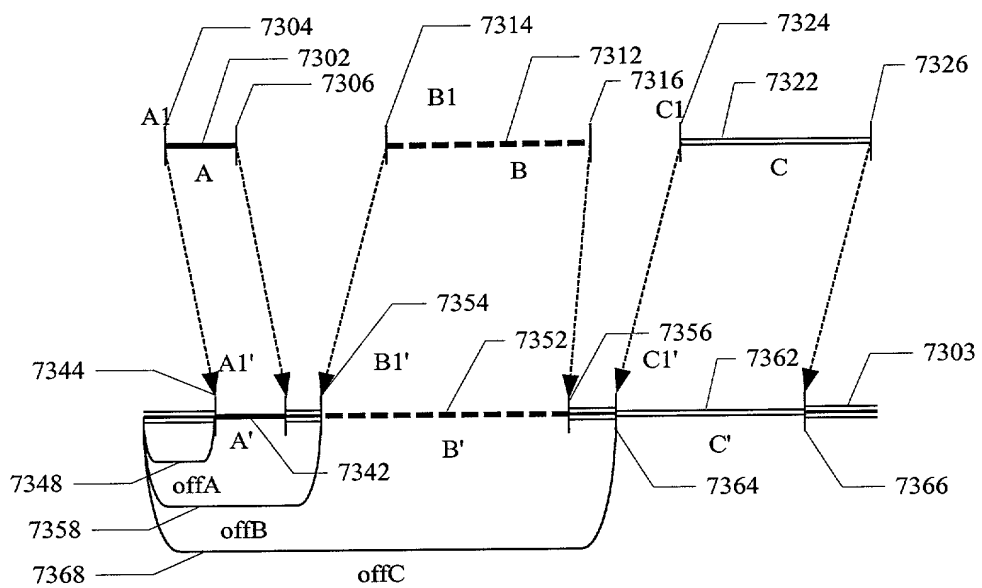


Figure 73